Eurotherm EPackECAT Object Dictionary rev3



Index	ObjectCode	SI	DataType	Name	Default	Description
	ication Area					
	VARIABLE		UINT32	Device Type	0x0001138B	Semiconductor Common Device Profile
0x1001	VARIABLE		UINT8	Error Register		Reserved for future use
_	VARIABLE		STRING	Manufacturer Device Name	EPackECAT	Name of the device
0x1009	VARIABLE		STRING	Manufacturer Hardware Version		Hardware version corresponding to PSL (Product Status Level) also written on instrument label
	VARIABLE		STRING	Manufacturer Software Version		Software version of the device
0x100B	VARIABLE		STRING	Manufacturer Bootloader Version		Software version of the Bootloader
0x1018	RECORD			Identity Object		
		1	UINT32	Vendor ID	0x1BC	Eurotherm Limited
		2	UINT32	Product Code	0xE1A2	EPackECAT
		3	UINT32	Revision Number	0x0000002	
		4	UINT32	Serial Number		Serial Number of the device
0x10F1	RECORD			Error Settings		Reserved for future use
		1		Local Error Reaction		
		2		Sync Error Counter Limit		
	VARIABLE		UINT64	Timestamp Object		Local Timestamp of the device in ns
Process D	ata Object Mapping Are					
	RxPDO Mapping (0x16	00 - 0x17FF)				
0x1600	ARRAY		1001722	Module RxPDO default mapping	0.7001000	Control to a service a Deserve to D
		1	UINT32		0x70010920	Setpoint provider Remote 2
0x1601	AKRAY			Module RxPDO user specific mapping		
		1	UINT32			flexible mapping
		2	UINT32			flexible mapping
		3	UINT32			flexible mapping
		4	UINT32			flexible mapping
		5	UINT32			flexible mapping
		6	UINT32			flexible mapping
-		7	UINT32		0x0000010	flexible mapping
0x17FF	ARRAY			Device RxPDO user specific mapping		
		1	UINT32			flexible mapping
		2	UINT32			flexible mapping
		3	UINT32			flexible mapping
		4	UINT32			flexible mapping
		5	UINT32			flexible mapping
		6	UINT32			flexible mapping
	T 880.14 · /0.44	/	UINT32		0x0000010	flexible mapping
0x1A00	TxPDO Mapping (0x1A	00 - 0x1BFF)		Medule TyPDO default manning		
UXIAUU	AKKAT	1	UINT32	Module TxPDO default mapping	0	Latebook Expandion Chatria
		1	UINT32			Latched Exception Status Active Exception Status
		2				
		3	UINT32 UINT32			Control Process Value
		4				Control Main Setpoint
		5	UINT32 UINT32			Network Current Network Load Voltage
0x1A01	ARRAY	U	011132	Module TxPDO user specific mapping	0x00000A20	Network Loop Yorkage
UNIMUI		1	UINT32		0x0000010	flexible mapping
		2	UINT32			flexible mapping
		2	UINT32			flexible mapping
		4	UINT32			flexible mapping
			UINT32			flexible mapping
		5	UINT32			flexible mapping
		7	UINT32			flexible mapping
		, 8	UINT32			flexible mapping
		8	UINT32			flexible mapping
		9 10	UINT32			flexible mapping
0x1BFE	ARRAY	10	011132	Device TxPDO default mapping	00000010	пехноге птарултв
VYIDLE	AUNAI	1	UINT32	Device TAPDO delaut mapping	0-20070100	Latched Global Device Error Details
0x1BFF	ΛΡΡΑΥ	T	011132	Device TxPDO user specific mapping	0xr3970120	Latureu Giobai Device Error Details
OVIDEL		1	UINT32	Device TAPDO user specific mapping	0,0000010	Revisio manning
		T	UIN132		0x0000010	flexible mapping



ndex ObjectCode	SI	DataType	Name	Default	Description
-	2	UINT32		0x00000010	flexible mapping
	3	UINT32			flexible mapping
	4	UINT32			flexible mapping
	5	UINT32			flexible mapping
	6	UINT32			flexible mapping
	7	UINT32			flexible mapping
	8	UINT32			Texible mapping
	9	UINT32			lexible mapping
	10	UINT32			Texible mapping
ynchronization Object Area		011102		0.0000010	newser webbing
x1C00 ARRAY			SyncManager Communication Type		
	1	UINT8	Communication Type Sync Manager 0	0x01	Mailbox Receive (Master to Slave)
	2	UINT8	Communication Type Sync Manager 1	0x02	Mailbox Send (Slave to Master)
	3	UINT8	Communication Type Sync Manager 2	0x03	Process Data Out (Master to Slave)
	4	UINT8	Communication Type Sync Manager 3	0x04	Process data in (Slave to Master)
x1C12 ARRAY			SyncManager 2 Assignment		
	1	UINT16	-,	0x1600	Module RxPDO default mapping
	2	UINT16		0x1601	Module RXPDQ user specific mapping
	3	UINT16		0x17FF	Device RXPDO user specific mapping
x1C13 ARRAY	5	CINITO	SyncManager 3 Assignment	UV1/LL	Server we do ever aboving mapping
	1	UINT16	STURNINGER STOREUNCHE	0x1A00	Module TxPDO default mapping
	2	UINT16		0x1A00	Module TXPO user specific mapping
	3	UINT16		0x1BFE	Device TxPDO default mapping
	4	UINT16		0x1BFE	Device TxPDO default mapping Device TxPDO user specific mapping
x1C32 RECORD	4	UNITO	SyncManager Output Parameter	UXIBFF	Device TXFDO user specific mapping
KICJZ RECORD	1	UINT16	Synchronization Type	0x0000	Free Run
	2	UINT32	Cycle Time	0,0000	Current Cycle time (Need 0x1C32.8 Get Cycle Time = 1)
	4	UINT16	-	0.0001	
	4 5		Synchronization Types supported	0x0001	Free Run only supported
		UINT32	Minimum Cycle Time		Current Minimum Cycle Time (Need 0x1C32.8 Get Cycle Time = 1)
	6	UINT32	Calc and Copy Time	0,0000	Current Calc and Copy Time (Need 0x1C32.8 Get Cycle Time = 1)
	8	UINT16	Get Cycle Time	0x0000	Write 1 to start Cycle Time Measurements
	9	UINT32	Delay Time		Not used
	10	UINT32	Sync0 Cycle Time		Not used
	11	UINT16	SM-Event Missed		Not used
	12	UINT16	Cycle Time Too Small		Not used
	32	UINT8	Sync Error		Not used
x1C33 RECORD			SyncManager Input Parameter		
	1	UINT16	Synchronization Type	0x0000	Free Run
	2	UINT32	Cycle Time		Current Cycle time (Need 0x1C33.8 Get Cycle Time = 1)
	4	UINT16	Synchronization Types supported	0x0001	Free Run only supported
	5	UINT32	Minimum Cycle Time		Current Minimum Cycle Time (Need 0x1C33.8 Get Cycle Time = 1)
	6	UINT32	Calc and Copy Time		Current Calc and Copy Time (Need 0x1C33.8 Get Cycle Time = 1)
	8	UINT16	Get Cycle Time	0x0000	Write 1 to start Cycle Time Measurements
			Delay Time		Not used
	9	UINT32			The abea
	10	UINT32 UINT32	Sync0 Cycle Time		Not used
	9	UINT32 UINT16			
	10	UINT32	Sync0 Cycle Time		Not used
	10 11	UINT32 UINT16	Sync0 Cycle Time SM-Event Missed		Not used Not used
bject Area of the Module	10 11 12	UINT32 UINT16 UINT16	Synco Cycle Time SM-Event Missed Cycle Time Too Small		Not used Not used Not used
	10 11 12	UINT32 UINT16 UINT16 UINT8	Synco Cycle Time SM-Event Missed Cycle Time Too Small		Not used Not used Not used
Input Data of the M	10 11 12 32	UINT32 UINT16 UINT16 UINT8	Synco Cycle Time SM-Event Missed Cycle Time Too Small		Not used Not used Not used
Input Data of the M	10 11 12 32	UINT32 UINT16 UINT16 UINT8	Sync ^O Cycle Time SM-Event Missed Cycle Time Too Small Sync Error		Not used Not used Not used Not used units: [hz]
Input Data of the M	10 11 12 32 Module (0x6000 - 0x6	UINT32 UINT16 UINT16 UINT8 FFF)	SyncO Cycle Time SM-Event Missed Cycle Time Too Small Sync Error Network inputs		Not used Not used Not used units: [h2] Frequency of the main Line voltage units: [V]
Input Data of the M	10 11 12 32 Vodule (0x6000 - 0x6	UINT32 UINT16 UINT6 UINT8 FFF) REAL	SyncO Cycle Time SM-Event Missed Cycle Time Too Small Sync Error Network inputs Network Frequency		Not used Not used Not used Not used units: [hz] Frequency of the main Line voltage
Dbject Area of the Module Input Data of the M Ix6000 RECORD	10 11 12 32 Module (0x6000 - 0x6 1 2	UINT32 UINT16 UINT16 UINT8 FFF) REAL REAL	SyncO Cycle Time SM-Event Missed Cycle Time Too Small Sync Error Network inputs Network Frequency Network Line Voltage		Not used Not used Not used Not used Units: [hz] Frequency of the main Line voltage units: [V] Voltage measurement on line side



ndex ObjectCode	SI	DataType	Name	Default Description
	15	REAL	Network Power per modulation period	units: [W]
				Measurement of the true power (P) on the network. This is calculated over the modulation period in burst mode. Typically used for monitoring or alarm strateg
				Example : When you set modulator mode to "Burst Var", P represents instantaneous True Power on a half period changing continuously according to the duty
				cycle. At the Same Time, PBurst remains constant during the modulation period and represents the True Power delivered to the load over this time.
				Only if Power calculation feature is supported
	16	REAL	Network Power per main cycle	units: [W]
				True power measurement (P) on the main period in phase angle and in burst firing. This is typically used for true power control
				Only if Power calculation feature is supported
	17	REAL	Network Apparent Power	units: [VA]
				Apparent power (S) measurement. In phase angle defined as : S=Vline x Irms But in burst firing it is defined as:- S=Vrms x Irms
				Only if Power calculation feature is supported
	18	REAL	Network Power Factor	range is in between 0 to 1
				Calculation of power factor. Defined as : Power Factor = True Power / Apparent Power. In phase angle this is: PF=P/S In burst firing this is: PF = PBurst/S =
				CosPhi(Load)
				Only if Power calculation feature is supported
	19	REAL	Network Load Impedance	units: [Ω]
	-			Load impedance measurement. It is defined as:- Z=Vrms/Irms
	22	REAL	Network Z reference	units: [Ω]
				When the PLF is adjusted, this parameter is the reference load impedance.
				Only if PLF feature is supported
	25	BOOL	Network PLF Adjusted	Indicate if PLF is Adjusted (1) or Not (0).
				Only if PLF feature is supported
6001 RECORD			Setpoint Provider inputs	
	1	REAL	Setpoint provider Working Setpoint	0-100%
			and a second	This is the active value being provided as a setpoint output
	2	REAL	Setpoint provider Working Setpoint in Engineering unit	When operating in engineering units, this is an indication of the working setpoint in engineering units.
	-			Only if Setpoint Engineering Units feature is supported,
	3	BOOL	Setpoint provider Ramp rate Status	Indicates whether the ramp is complete.
				If the RampRate is active this is set to NO (0). If the rate limit has completed or the DisRamp (0x7nn1.03) is set, this value will be YES (1).
				Only if setpoint ramp feature is supported,
6002 RECORD			Control inputs	
	1	REAL	Control Process Value	This is the main PV of the Power Controller. Could be V^2 , I^2 or P depending on the control mode selected.
	2	REAL	Control Main Setpoint	This is the setpoint you primarily wish to control at. This is taken as a percentage of the NominalPV. For example if NominalPV is 52900 squared voltage and the
	-			MainSP set to 50% the controller will aim to regulate at 26450 squared voltage. However if Transfer or Limit is enabled that will supersede this setpoint.
	3	REAL	Control Transfer Process Value	if Transfer Enable this is the transfer PV
	4	REAL	Control Limit Process Value	if funits called this is the funits PV
	4	BIT3	Control Status	Return information about loop state
	,	5115	controlocatab	0: Main PV
				0. Main FV 1: Transfer active (if transfer feature supported)
				2-3: Reserved
				4: Limit active (if limit feature supported)
				- Anna earlie supported/ 5-7: Reserved
	10	REAL	Control Output Power	S-7. Reserved Output demand of the controller in percent
	10	REAL	Control Phase Angle Output for PA reduction	output demand of the pretent
		NEAL CONTRACT	control muse Angle output for 1 A reduction	only if Limit feature supported
k6003 RECORD			Modulator inputs	
	1	REAL	Modulator Output	This output is a logic signal (0;100) requesting the thyristor to turn on and off. If the Mode is set to PA this is a phase angle demand in percent.
k6004 RECORD			Firing inputs	
	1	BOOL	Firing Safety Ramp Status	Return information about safety ramp state
				0: Ramping
				1: Finished
				Only if Safety Ramp feature supported
	of the Module (0x7000 - 0			



 In this case. BOGL Operator access to Setpoint from for the supported Operator access to Setpoint from for the supported Setpoint growther is supported Setpoint growther is support and in the support and in the support and integrating is support and integratis support and integrating is support and integrating is suppor	ndex ObjectCode	SI	DataType	Name Defa	Jlt Description
Provide a consistence of a consist		1	BIT3	Network PLF Adjust request	0: No
Provide a construction of the second o					7: Request
bisses with a second sec					
Value of the stand of					
Applie with the second second. Stand Second Secon					
NUMP NUMP Second Part Power					
Number Separate works Separate works Separate works Separate works 1 000 Separate works Separate works Separate works Separate works 1 1 000 Separate works Separate works Separate works Separate works 1 1 1 Separate works Separat works <					
Provide Provide Statistics Statisting Statistics Statisting Statisting Statisting Statisting					Only if PLF feature supported
Provide	x/001 RECORD	1	ROOL		To a last state in a sum
Provide states Provide state		1	BOOL	Serpoint provider Serpoint Selection	
Provide reported provide reported repore					
Image: Provide Decision Control 1 Control 1 Image: Provide Decision Control 1 Control 1 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Provide Provi		2	BOOL	Setpoint provider Remote Setpoint selection	
i sepait amp at se analac, the may but appears analac, the may but at terminate the amp and write the angle stepond divergity to the Workings?. The Kang State at angle at the may but at the may but at the may and write the angle at the warkings?. The Kang State at a steport of motion facile excelled [1] of state					
in this case. in this case. in this case. Operator access to support any factor is support and factor is support and factor is support and factor is support access to support					1 : remote 2
Provide sequence Only if sequence model Only if sequence model Only if sequence model Provide sequence Only if sequence model Only if sequence model Only if sequence model Provide sequence Provide model Sequence model Only if operator access to sequence model Provide model Sequence model Sequence model Sequence model Provide model Sequence model Sequence model Sequence model Provide model Sequence model Sequence model Sequence model Provide model Only if sequence model Sequence model Sequence model Provide model Sequence model Sequence model Sequence model Provide model Sequence model Functional Sequence model Sequence model Provide model Sequence model Functional Sequence model Sequence model Provide model Sequence model Functional Sequence model Sequence model Provide model Sequence model Functional Sequence model Sequence model Provide model Sequence model Sequence model Sequence model Provide model Provide model Sequence model Sequence model Provide model Provide model Sequence model Sequence model Provid		3	BOOL	Setpoint provider Disable ramp	If setpoint ramp rate is enabled, this may be used to terminate the ramp and write the target setpoint directly to the WorkingSP. The Ramp rate status is set to YI
Field BOLL Operator access to seption from from from from from from from from					in this case.
Provide sector Provide sector Operation scales to perploy from from from from from from from from					Only if setpoint ramp feature is supported
Arrows Convertion Convertion 7 REAL Secont provider Local Secont provider Local Secont value in percent (0-1005) 8 REAL Secont provider Local Secont value in percent (0-1005) 9 REAL Secont provider Local Secont value in percent (0-1005) 9 REAL Control Long value in percent (0-1005) 10002 Total Value in percent (0-1005) Total Value in percent (0-1005) 10003 RECORD Total Value in percent (0-1005) 10004 USINT Modulator Main on Time for value in modulator. This is set in mains periods. At 50% demand from the modulator. Total repertent in the modulator in the modulator. This is set in mains periods. At 50% demand from the modulator. Total repertent in the modulator (0-1000) 10004 USINT Modulator Switch Runs to PA Dis Runs modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains periods. At 50% demand from the modulator. This is set in mains perio		4	BOOL	Operator access to Setpoint	
7 REAL Secont powder local sepants Secont powder local sepants 8 REAL Secont powder Rente 1 Secont powder Rente 2 0 REAL Secont powder Rente 2 Secont powder Rente 2 0 RECORD If Link Eable this is the link 5.9 0 RECORD If Link Eable this is the link 5.9 0 Norder Link Second Link sepont 1 Molistor Menings on the second Link second 1 0 Norder Link Second Link second 1 Molistor Menings on the second Link second 1 1 USINT Molistor Menings on the second 1 Molistor Menings on the second 1 1 USINT Molistor Second 1 Molistor Menings on the second 1 1 USINT Molistor Second 1 Molistor Menings on the second 1 2 BOOL Molistor Second 1 Molistor Second 1 2 BOOL Molistor Second 1 Molistor Second 1 2 BOOL Molistor Second 1 Molistor Second 1 3 USINT Pring Dupot 1 Molistor Second 1 4 UNIT Pring Dupot 1 Molistor Second 1 5 USINT Pring Dupot 1 Molistor Second 1 5 USINT Pring Dupot 1 Molistor Second 1 5 USINT Pring Dupot 1 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
8REALSequent provider Renote 2Sequent value in proceen (0.000%)N7002K-CORD		7	REAL	Setpoint provider Local Setpoint	
9 REAL Setionari provider Renot 2 Setionary provider Renot 2 VOR RECORD Control Link setionari If Link Resultation Resultatin Resultation Resultation Resultatin Resultation Resultatin		, 8			
Note: Outcol explosit Outcol explosit 5 REAL Control explosit It lumit failure students is the limit Sp. Only If lumit failure supported 77003 NECORD Modulator outputs Modulator Minimum On Time Minimum on time for variable modulator. This is set in mains periods. At SDK demand from the modulator. Ton* of off-MiniOnTime and CycleTimes2 2 BODL Modulator Switch Burst to PA Minimum on time for variable modulator. This is set in mains periods. At SDK demand from the modulator. Ton* of off-MiniOnTime and CycleTimes2 4 UNIT Modulator Cycle Time Control explosit 4 UNIT Modulator Cycle Time Control explosit 5 Fining Output Fable This abouts the set is active to the explosition period. 1 BODL Fining Output Fable This is set in mains period. This is the equivalent to the modulation period. 3 UNIT Modulator Cycle Time Control explosition period. Control explosition period. 4 UNIT Modulator Skitch Burst to PA Control explosition period. Control explosition period. 3 UNIT Fining Output Fable This input exables (D finine, Normality this could be linked to a digital input, in this cas					
S REAL Control Limit sepont 1 If Lambe this is the limit SP. ArrOW In Exame the iss the limit SP. Only If limit feature supported ArrOW 1 Modulator rules is Minitum on time for variable modulator. This is set in mains periods. At SOX demand from the modulator. Tom ToffMinitum and CycleTimes-CMModulato period ArrOW 1 Modulator Switch Burst to PA Minitum on time for variable modulator. This is set in mains periods. At SOX demand from the modulator. Tom ToffMinitum and CycleTimes-CMModulato period ArrOW Modulator Switch Burst to PA Modulator Switch Burst to PA Minitum on time for variable modulator. This is the equivalent to the modulator. This is the equivalent to the modulator period. At SOX demand from the modulator period. At SOX demand from the modulator period. At SOX demand from the modulator. This is set in mains periods. This is the equivalent to the modulator period. At SOX demand from the modulator period. This is set in mains periods. This is the equivalent to the modulator period. At SOX demand from the modulator		5	NLAL		Setpoint value in percent (0-100%)
Construction Construction Opport of the composition 0.7003 FECORD 1 USINT Modulator Mainum on Time for variable modulator. This is set in mains periods. At SOX demand from the modulator : Ton-Toff-fidureOfTime and CycleTime-2 0.7004 FECORD 0 Modulator Mainum on Time for variable modulator. This is set in mains periods. At SOX demand from the modulator : Ton Toff-fidureOfTime and CycleTime-2 0.7004 FECORD Note the South Mainum on Time Minimum on time for variable modulator. This is set in mains periods. At SOX demand from the modulator : Ton Toff-fidureOfTime and CycleTime-2 0.7004 FECORD Fing outputs This allows the set to select between the burst mode (0), as specified by the Mode parameter and the forced A mode (1). 0.7004 FECORD Fing outputs This input enables (1) or disables (0) fring. Normally this could be linked to a digital input, in this case writing would have no effect. 0.7004 FECORD Fing outputs This input enables (1) or disables (0) fring. Normally this could be linked to a digital input, in this case writing would have no effect. 0.7004 So tart duration on ask on the advalation burst fring. This applies a phase angle ramp over the number of specified mains set os satis the advalation on ask on the advalation in a set on the advalation on ask on the advalation in the end of the "on" period for the number of specified mains con target fring. 0.7004 Fing output that the advalation fring. This applies a phase angle ramp over the number of specified mains con target fring.	KIUUZ RECORD	-	DEAL	-	(Line) Franklands (Line) CD
Durl Durl Durl Durl Durl Durl Durl Durl		5	REAL	Control Limit setpoint 1	
1 USNT Modulator Minimum On Time or Variable modulator. This is set in mains periods. At SD% demand from the modulator: Ton sTolF=MinRoOTIme and CycleTime-2 Non-Time-Modulation period Minimum on time or Variable modulator. This is set in mains periods. At SD% demand from the modulator. Ton stole to Min of Must V an modulation selected Only available f Durst V an autobaliton selected Only available f Durst V An autobaliton selected Only available f Durst V An autobaliton selected Only available f Durst V An autobaliton selected VECORD Fire output Fire output STAT Modulator Cycle Time Output Only available f Durst V An autobaliton fields to advaluation. This is set in mains periods. This is set output to the noululaton period. VECORD Fire output Fire output Only available f Durst V Fire output to the An under STAT STAT STAT STAT STAT STAT STAT STA					Only if Limit feature supported
Ninch Time-Modulation period Only fibury 2 modulation selected 0 Non-Modulation Selected 4 UNT Modulator Switch Burst to PA This allows the user to select between the Burst mode (D), as specified by the Mode parameter and the forced PA mode [1]. 4 UNT Modulator Cycle Time Cycle time for fread period modulaton. This is set in mains periods. This is the equivalent to the modulation period. 7000 RECRD Fing Output Enable This input enables (1) or disables (0) fings. Normally this could be linked to a digital input, in this seaw miting would have no effect. 1 BOOL Fings Output Enable This input enables (1) or disables (0) fings. Normally this could be linked to a digital input, in this seaw miting would have no effect. 3 USINT Fings Output Enable This input enables (1) or disables (0) fings. Normally this could be linked to a digital input, in this seaw miting would have no effect. 4 USINT Fings Output Enable This input enables (1) or disables (0) fings. Normally this could be linked to a digital input, in this seaw miting would have no effect. 5 1 BOOL Fings Output Enable This input enables (1) or disables (0) or disable (0) would into a transformer load. This is used on mains periods. Soft star is apple 6 USINT Fings Output Enable	X/003 RECORD			•	
0hyl Flaust Var modulation selected Ohyl Flaust Var modulation selected 1 2 BOA Modulator Switch tay Fait Tay Source (Source Fait Tay Source Fait		1	USINT	Modulator Minimum On Time	
2 BON, Modulator Switch Burst to PA This allows the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). 0-by variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). Only variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). 0-by variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). Only variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). 0-by variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). Only variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). 0-by variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (1). Only variable if the user to select between the Burst mode (0), as specified by the Mode parameter and the force QPA mode (2). 0-by variable if the user to select between the Burst fing. This input enables (1) or disable (0) fing. Normally this could be linked to a digital input, in this case writing would have no effect. 3 USINT Fring Soft End Duration This input enables (1) or disable					
i i i i i 4 UNT Modulator (Yele Time Ciple time for fixed point mains periods. This is the equivalent to the modulation period. Scaling factor x1. 0 FRECORD Fring Output Enable 3 BOOL Fring Output Enable 3 USINT Fring Soft End Duration 4 USINT Fring Soft End Duration 3 USINT Fring Soft End Duration 4 USINT Fring Soft End Duration 3 USINT Fring Soft End Duration 4 USINT Fring Soft End Duration 4 USINT Fring Soft End Duration 3 USINT Fring Soft End Duration 4 USINT Fring Soft End Duration 5 USINT Fring Soft End Duration 5 USINT Fring Soft End Duration 5 USINT Fring Delay Tiggering 6 UDINT Fring Delay Tiggering 7 USINT SWR Load Cooling Timeshold 7 USINT <					
4 UNT Modulator Cycle Time Cycle Time for fixed period modulator. This is set in mains periods. This is the equivalent to the modulation period. Scaling fractor x1. 0x0/ IF Burst Fix modulation selected 0x1/ IF Burst Fix modulation selected 0x0/ IF Burst Fix modulation and the modulation period. 1 3 USNT Fring output 3 USNT Fring Soft Start Duration 0x1 start feature supported 0x1 start feature supported 0x1 start feature supported 0x1 start feature supported 5 USNT Fring Soft End Duration 6 UDINT Fring Soft End Duration 0x1 start feature supported 0x1 start feature supported 5 USNT Fring Delay Triggering 6 UDINT Fring Delay Triggering 7 USNT WiR Load Cooling Time 7 USNT WiR Load Cooling Time 7 USNT WiR Load Cooling Time 7 USNT WiR Load Cooling Timeshold 7 <		2	BOOL	Modulator Switch Burst to PA	This allows the user to select between the Burst mode (0), as specified by the Mode parameter and the forced PA mode (1).
Second Find output Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second					Only available if burst to PA switching feature supported.
Only If Burst Fix modulation selected Obv/OP Firing outputs 1 BOOL Firing Output Enable This input enables (1) or disables (0) fring. Normally this could be linked to a digital input, in this case writing would have no effect. 3 USINT Firing Soft Start Duration Soft start duration on each "on" burst fring. This applies a phase angle ramp over the number of specified mains periods. Soft start is applie on y wallable in burst fring. 0: soft start duration on each "on" burst in burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst fring. 0: soft stard duration on each "on" burst		4	UINT	Modulator Cycle Time	Cycle time for fixed period modulator. This is set in mains periods. This is the equivalent to the modulation period.
0x704 Filing outputs This input enables (1) or disables (0) firing. Normally this could be linked to a digital input, in this case writing would have no effect. 3 USINT Firing output Enable This input enables (1) or disables (0) firing. Normally this could be linked to a digital input, in this case writing would have no effect. 3 USINT Firing Soft Start Duration Soft start disables (0) firing. Normally this could be linked to a digital input, in this case writing would have no effect. 4 USINT Firing Soft End Duration Soft start disables 5 USINT Firing Delay Triggering C: soft start disabled 6 UDINT SWIR Load Cooling Time Only if soft start feature supported 0: No delicated firing strategy is applied on SWIR load for more than this amount of time Only if no to 90 degrees phase angle. This is only for burst firing without soft start. 0 Only if fransformer load Supported USINT SWIR Load Cooling Time 6 UDINT SWIR Load Cooling Time USINT 7 USINT SWIR Load Cooling Timeshold Configuration Date of the Module (0x8000 - 0x8FFF) 0x8001 Actions Actions Network Settings 0 Configuration Date of the Module (0x8000 - 0x8FFF) Only if Heater Type SWIR selected					Scaling factor x1.
1 BOQ Firm Output Enable This input enables (1) of disables (0) firm, Normally this could be linked to a digital input, in this case writing would have no effect. 3 USIN Firing Soft Start Duration Soft Start duration on sach "on" burst himg. This applies a plase angle ramp over the number of specified mains periods. Soft start is applied on soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. Soft Start duration on sach "on" burst himg. 0 Soft Start duration on sach "on" burst himg. <td></td> <td></td> <td></td> <td></td> <td>Only if Burst Fix modulation selected</td>					Only if Burst Fix modulation selected
3 USINT Firing Soft Start Duration Soft start duration on each "on" burst in burst firing. This applies a phase angle ramp over the number of specified mains periods. Soft start is applie output turns on and is only available in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on each "on" burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in fourts in on "burst in fourts firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains periods. Soft start duration on "burst in burst firing. This applies a phase a	0x7004 RECORD			Firing outputs	
A USINT Firing Soft End Duration output turns on and is only available in burst firing. D: soft start disabled ON If Soft start fature supported ON If Soft start fature supported DN If Soft start fature supported Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Soft stop duration on each "on" burst in burst firing. Diversion on each "on" burst in burst firing. Diversin duration on the burst firin		1	BOOL	Firing Output Enable	This input enables (1) or disables (0) firing. Normally this could be linked to a digital input, in this case writing would have no effect.
a USINT Firing Soft End Duration output turns on and is only available in burst firing. Div diff soft start disabled b c soft start disabled Dividit soft start disabled b d USINT Firing Soft End Duration Soft start disabled b soft start disabled Dividit soft start disabled b d USINT Firing Delay Triggering c soft stop duration on dex for "burst in burst firing without soft start. DN/ly if soft stop feature supported Dividit soft stop feature supported c soft stop duration of the triggering delay when firing into a transformer load. This is used to minimize innush current on transformer load. It can to a value from 0 to 90 degrees phase angle. This is only for burst firing without soft start. DN/ly if soft start disabled DN/ly if soft start disabled D NVR Load Cooling Time Units: (ms] USINT SWIR Load Cooling Timeshold SWIR Load Cooling Timeshold c DN/ly if soft start disabled DN/ly if soft start disabled D No dedicated firing strategy is applied on SWIR load for more than this amount of time D No decidated firing strategy is applied at next firing if no powerel (cold). D No decidated firi		3			
k Visoft start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start disabled Origotist start				· · · · · · · · · · · · · · · · · · ·	
A USINT Pring Soft End Duration Only if soft start feature supported Soft stop duration on each "on" burst in burst firing. This splies a phase angle ramp at the end of the "on" period for the number of specified mains stop is a pplied only when the output turns off and is only available in burst firing. Soft stop duration on each "on" burst in burst firing. This splies a phase angle ramp at the end of the "on" period for the number of specified mains stop is a pplied only when the output turns off and is only available in burst firing. Soft stop duration on each "on" burst in burst firing. Divis for the traggering delay when firing into a transformer load. This is used to minimize invush current on transformer load. It is specified the duration of the traggering delay when firing without soft start. Only if soft start feature supported Soft stop divertion of the traggering delay when firing without soft start. 6 UDINT SWIR Load Cooling Time Units: [m] 0. Viring angle in percent (0-25%) below which SWIR load is considered unpowered (cold). Only if theat "Type SWIR selected (0x8nn:13 = 1) 0. Roferent Houte(0x8000 - USET) Stop Stop Stop Stop Stop Stop Stop Stop					
4 USINT Firing Soft End Duration Soft Stop duration on each "on" burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains stop is applied only when the output turns off and is only available in burst firing. 6 USINT Firing Delay Triggering Soft Stop duration on each "on" burst in burst firing. This applies a phase angle ramp at the end of the "on" period for the number of specified mains stop is applied only when the output turns off and is only available in burst firing. 6 UDINT Firing Delay Triggering Only if soft stop feature supported 0 Only if and Store feature supported Only if ransformer load supported 0 Only if transformer load supported Only if transformer load Supported 0 No declared firing strategy is applied on SWIR load for more than this amount of time 0 No declared firing strategy is applied on SWIR load for more than this amount of time 0 No declared firing strategy is applied at next firing if no power is applied on SWIR load for more than this amount of time 0 No declared firing strategy is applied on SWIR load Cooling Time (or Norte) 0 Norte Transformer load SWIR load is considered unpowered (cold). 0 Norte Transformer load SWIR load is considered unpowered (cold). 0 Norte Transformer load SWIR load Cooling Time (or Nort.S) value different from 0 <td></td> <td></td> <td></td> <td></td> <td></td>					
stop is applied only when the output turns off and is only available in burst firing. C: soft stop disabled Only if soft stop feature supported Specifies the duration of the triggering delay when firing into a transformer load. This is used to minimize inrush current on transformer load. It can to a value from 0 to 90 degrees phase angle. This is only for burst firing without soft start. Only if transformer load supported units: [ms] Only if transformer load SWR load Only if teater streegy is applied on SWR load Only if Heater Type SWR selected (0x8nn1:13 = 1) Firing angle in percent (0-25%) below which SWR load is considered unpowered (cold). Only if Heater Type SWR selected (0x8nn1:13 = 1) Firing angle in percent (0-25%) below which SWR load cooling Time 0 Step 1 Exercise 1 Step 2 RECRD RECRD RECRD RECRD REAL Network Nominal Voltage REAL Network Nominal Voltage REAL Network Nominal Current of the stack used for calibrating the current measurement in power module. Nominal current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. Nominal Current of the stack used for calibrating the current measurement in power module. State 1 State 1		4	LICINT	Eiring Soft End Duration	
bis		4	USINI	Filling Soft End Duration	
S USINT Firing Delay Triggering Only if sol Specifies the duration of the triggering delay when firing into a transformer load. This is used to minimize inrush current on transformer load. It can to a value from 0 to 90 degrees phase angle. This is only for burst firing without soft start. O VDINT SWIR Load Cooling Time Only if transformer load supported Units: [ms] Only if transformer load supported Units: [ms] O VDINT SWIR Load Cooling Time Only if transformer load supported Units: [ms] Only if transformer load supported Units: [ms] O VDINT SWIR Load Cooling Timeshold Instruction of the triggering is applied on SWIR load 1 Forgore: Pring angle in percent (Ox80m1:13 = 1) Pring angle in percent (Ox80m1:13 = 1) Pring angle in percent (Ox80m1:13 = 1) and SWIR load is considered unpowered (cold). Only if Heater Type SWIR selected (0x8m1:13 = 1) and SWIR load Cooling Time (0x7m14:6) value different from 0 Notion RECRD Excore Network Nominal Voltage Ine nominal voltage setting of power module. 3 REAL Network Nominal Current Line nominal voltage setting of power module. Nominal current measurement in power module. This is limited by Maximum Current Rating Option (0x80m1)					
5 USINT Firing Delay Triggering Specifies the duration of the triggering delay when firing into a transformer load. This is used to minimize inrush current on transformer load. It can to a value from 0 to 90 degrees phase angle. This is only for burst firing without soft start. 6 UDINT SWIR Load Cooling Time Only if transformer load supported 0 No dedicated firing strategy is applied on SWIR load SWIR Load Cooling Time 7 USINT SWIR Load Cooling Timeshold Firing angle in present (0-25%) below which SWIR load to not were than this amount of time 7 USINT SWIR Load Cooling Timeshold Firing angle in present (0-25%) below which SWIR load cooling Time (0x7nn4:6) value different from 0 Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 ONLY Selector Se					
k log with the form 0 to 90 degrees phase agle. This is only for burst firing without soft start. Only if transformer load supported units: [ms] Only if transformer load supported UNIST SWIR Load Cooling Time Configuration Data of the Module (0x8000 - 0x8FFF					
6 UDINT SWIR Load Cooling Time Only if transformer load supported 0: No dedicated firing strategy is applied on SWIR load 0: No dedicated firing strategy is applied on SWIR load for more than this amount of time 7 USINT SWIR Load Cooling Timeshold Firing angle in percent (0-25%) below which SWIR load is considered unpowered (cold). 0: No dedicated firing strategy is applied on SWIR load Cooling Timeshold Firing angle in percent (0-25%) below which SWIR load is considered unpowered (cold). 0: No fleater Type SWIR selected (0x8nn1:13 = 1) Firing angle in percent (0-25%) below which SWIR load cooling Time (0x7nn4:6) value different from 0 N#WORK Settings RECORD 2 REAL 1 Network Nominal Voltage 3 REAL 1 Network Nominal Current 0 Nominal current of the stack used for calibrating the current measurement in power module. This is limited by Maximum Current Rating Option (0x40)		5	USINT	Firing Delay Triggering	
6 UDINT SWIR Load Cooling Time units: [ms] 0: No dedicated firing strategy is applied on SWIR load for more than this amount of time 0: No dedicated firing strategy is applied on SWIR load for more than this amount of time 7 USINT SWIR Load Cooling Timeshold Firing angle in percent (0-25%) below which SWIR load is considered unpowered (cold). 0: No fleater Type SWIR selected (0x8nn1:13 = 1) Firing angle in percent (0-25%) below which SWIR load cooling Time (0x7nn4:6) value different from 0 two strategy is applied on SWIR load cooling Time (0x7nn4:6) value different from 0 two strategy is applied on SWIR load is considered unpowered (cold). Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 two strategy is applied on SWIR load is considered unpowered (cold). Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 two strategy is applied on SWIR load is considered unpowered (cold). Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 two strategy is applied on SWIR load is considered unpowered (cold). Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 Strater Strategy is applied on SWI					to a value from 0 to 90 degrees phase angle. This is only for burst firing without soft start.
A general section of the Module (0x8000 - 0x8FF) Configuration Data of the Module (0x8000 - 0x8FF) Description A general section A general					Only if transformer load supported
A propriod of the state of		6	UDINT	SWIR Load Cooling Time	units: [ms]
A propriod of the state of					0: No dedicated firing strategy is applied on SWIR load
A Part of the second of the					
f USINT SWIR Load Cooling Threshold Firing angle in percent (0-25%) below which SWIR load is considered unpowered (cold). Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 origination Data of the Module (0x8000 - 0x8FFF Wetwork SWIR SWIR Load Cooling Time (0x7nn4:6) value different from 0 option RECORD Network SWIR SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR Load SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR Load SWIR Load SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load SWIR Load SWIR Load Cooling Time (0x7nn4:6) value different from 0 0 SWIR Load					
Configuration Data of the Module (0x8000 - 0x8FFF) Only if Heater Type SWIR selected (0x8nn1:13 = 1) and SWIR Load Cooling Time (0x7nn4:6) value different from 0 Dx8001 RECORD Network Settings 2 REAL Network Nominal Voltage Line nominal voltage setting of power module. 3 REAL Network Nominal Current Nominal current of the stack used for calibrating the current measurement in power module. This is limited by Maximum Current Rating Option (0x5000 - 0x5000 - 0x50		7	USINT	SWIR Load Cooling Threshold	
Configuration Data of the Module (0x8000 - 0x8FFF) Network Settings Dx8001 RECORD 2 REAL Network Nominal Voltage Line nominal voltage setting of power module. 3 REAL Network Nominal Current Nominal current of the stack used for calibrating the current measurement in power module. This is limited by Maximum Current Rating Option (0x900)			55	· · · · · · · · · · · · · · · · · · ·	
Network Settings Network Settings 2 REAL Network Nominal Voltage Line nominal voltage setting of power module. 3 REAL Network Nominal Current Nominal current of the stack used for calibrating the current measurement in power module. This is limited by Maximum Current Rating Option (0x5)	Configuration Da	ata of the Module (0x8	3000 - 0x8FFF)		only in needs. Type of this selected (oxining table of this could cooling time (oxining of value different from o
2 REAL Network Nominal Voltage Line nominal voltage setting of power module. 3 REAL Network Nominal Current Nominal current of the stack used for calibrating the current measurement in power module. This is limited by Maximum Current Rating Option (0x5)	0	in the module (0x0		Network Settings	
3 REAL Network Nominal Current Rating Option (0x5		2	RFAI		Line nominal voltage setting of nower module
				0	
imposes the limit of the physical current.		5	NLAL	network normal current	
					imposes the initial of the physical cuffent.

Eurotherm EPackECAT Object Dictionary rev3



Index ObjectCode	SI	DataType	Name	Default Description
	4	USINT	Network Voltage Dips Threshold	Voltage dips threshold to activate Network Dips Alarm. This is configured as a percentage difference between 2 consecutive half cycles. Each half cycle voltage
				measurement is integrated and at the end of each half cycle the last 2 voltage integrals are compared. The setting is specified as a percentage of vLineNominal.
	6	REAL	Network Frequency Drift Threshold	Frequency Drift Threshold.
				It may be adjusted by the user to a higher value, up to 5%, in case of the source transformer having a high impedance which will introduce important phase shifting
				in burst firing.
				The supply frequency is checked every half cycle, and if the percentage change between 1/2 cycles exceeds this threshold value, a Mains Frequency System Alarm
	7	UINT	Network Chop Off Threshold	is generated.
	/	UINT	Network Chop On Threshold	Chop-off alarm will be active when a current threshold is exceeded for more than a pre-defined number of mains period. Scaling factor x1
				Only if Choo off feature supported
	8	USINT	Network Chop Off Number	Definition of the number of mains period in which Chop Off events can occur before a Chop Off alarm is enabled. Only used with Chop Off Threshold .
				Only if Chop off feature supported
	9	USINT	Network Over Voltage Threshold	Defines the threshold for detecting an over voltage condition. This is specified as a percentage of VLineNominal. If Vline is above the threshold a OverVoltage alarm
				will occur.
	10	USINT	Network Under Voltage Threshold	Defines the threshold for detecting an under voltage condition. This is specified as a percentage of VLineNominal. If Vline is below the threshold an Under Voltage
				alarm will occur.
	11	USINT	Network PLF sensitivity	This defines how sensitive the partial load failure detection is. This is defined as a ratio between the load impedance for an adjusted PLF and the current impedance
				measurement. For example, for a load of 6 elements (in parallel) if the PLF sensitivity is set to 2, then a PLF alarm will occur if 3 of the 6 elements are broken.
				Only available if PLF feature supported
	12	UINT	Network Over Current threshold	Defines the threshold for detecting an over current condition. This is specified in percentage of INominal. If I is above the threshold a Over Current alarm will occur
				Scaling factor x1
	13	UINT8	Heater Type	Defines the type of heater used in the load:
				0: Resistive load
				1: Short wave infra red (SWIR)
				2: Silicon Carbide (Csi)
				3: Molybdenum disilicate (MoSi2)
				4-255:Reserved
3002 RECORD			Setpoint Provider Settings	Only if Heater Type Supported
	1	REAL	Setpoint Limit	Setpoint limit scalar
				Applies a limiting scalar to the target setpoint, this applies as:
				Working setpoint = (SLx SP) / 100 where
				SL = Setpoint limit scalar and
				SP = Target setpoint
				Note: The setpoint limiting scalar is applied before the rate limit.
		DEAL	Color sink Down webs	Only if setpoint limit feature is supported
	1	REAL	Setpoint Ramp rate	Ramp rate for the setpoint. The WorkingSP will be rate limited by Ramp Rate until the target setpoint has been achieved, this is in units/sec. Whilst ramping Ramp Rate Status (0x6nn1.3) is set
				to NO; when the ramp is complete the Ramp Rate Status is set to YES.
				If this value is set to 0 (OFF) the rate limit is disabled.
				Note: The rate limit is applied after the setpoint limiting scalar.
				Only if setpoint ramp feature is supported
	3	BOOL	Setpoint Units	Define the units of the setpoint, this can either be percent (0) or engineering (1). In the case of engineering the Working SP is calulated as a percentage based on
				the value of the Setpoint High Range parameter.
				Only if setpoint Engineering Units feature is supported
	5	REAL	Setpoint High Range	If a setpoint is configured in engineering units this is the high range of the setpoint. This is then used to scale the setpoint into percent of HighRange.
				Only if setpoint Engineering Units feature is supported
3003 RECORD			Control Settings	
NECOND				

Eurotherm EPackECAT Object Dictionary rev3



ndex ObjectCode	SI	DataType	Name	Default	Description
	1	UINT8	Control Mode		To select the process value to control.
					Value Options
					0: Control Mode V ²
					In this mode, the loop controls the squared value of the load voltage.
					1: Control Mode I ²
					In this mode, the loop controls the squared value of the load current.
					2: Control Mode P (only if power feature supported)
					In this mode, the loop controls the true power delivered to the load.
					3: Open Loop
					In this mode, the loop is kept opened.
	3	REAL	Control Nominal PV		4-255: Reserved
	3	KEAL			This is usually the nominal value for each of the control types. For example in V ² control you must set Nominal PV to the nominal value you expect for V ² this cou
					be VloadNominal x VloadNominal.
	4	BOOL	Control Limit Enabled		This is used to enable the threshold limit feature for current limit.
					Only if limit feature supported.
	5	BOOL	Control Transfer Enabled		This is used to enable the transfer (proportional limit) to l^2 .
					Only if Transfer feature supported
	7	REAL	Control Transfer Span		This is the span of operation for the transfer in the units of 1 ² . The transfer control point will be proportional to the MainSP, so for example if TransferSpan is set t
					$100A^2$ and the MainSP is set to 50% then the transfer control point will be $50A^2$.
					Only if Transfer feature supported.
	8	UINT8	Control Safe State Action		The control behavior in the safe state:
					0: Control Output (0x6nn2 SI 0x0A) = 0,
					1: Control Output (0x6nn2 SI 0x0A) normal processing,
					2-255: Reserved
x8004 RECORD			Modulator Settings		
	1	UINT8	Modulator Mode		Defines the mode of modulation in which to operate:
					0: Intelligent half cycle (optional)
					In this mode, the minimum "on" time is half mains period. The modulator will eliminate the DC component.
					1: Variable period modulation in burst firing (minimum on time)
					In this mode, the modulation period is variable with the "on" time being fixed to the minimum "on" time setting. This mode will run in full mains cycles only.
					2: Fixed period modulation in burst firing (cycle time)
					In this mode, the modulation period is fixed with the "on" time being variable. This mode will run in full mains cycles only.
					3: Logic firing
					In this mode, the output will switch according to the state of the input. The output will switch at the next zero-crossing or the next full cycle zero-crossing
					depending upon the logic mode setting. A hysteresis is applied to the input. An input signal greater than 50% will apply a logic 1, an input signal less than 25% wi
					set a logic zero.
					4: Phase angle (Bypass modulation)
					In this mode, no modulation is applied, the firing is phase angle.
					5-255: Reserved
	2	BOOL	Modulator Logic Mode Cycle Selection		Determines when the output from the modulator block is stopped. This can be at the next full cycle or half cycle.
					0: Half cycle logic mode
					Logic mode stop on the next zero crossing
					1: Full cycle logic mode
					Logic Mode stop at the zero crossing of the next full cycle
					If Logic modulation selected
x8005 RECORD			Firing Settings		
	1	USINT	Firing Safety Ramp		Defines the duration of the safety ramp, this only applies at startup. This is defined in mains periods from 0 to 255. The ramp is a phase angle ramp from 0 to the
			· ······ ········ ····················		requested target phase angle or to 100% in burst firing. Safety ramp is not applicable to IHC (Intelligent Half Cycle).
					requested angle phase angle of to 100% in balls ming, one of hump is not applicable to the intermediate hum eyeld.
					Only if Safety Ramp feature supported
	2	BOOL	Firing Load Type		Define the type of load that is being fired into, for example this could be resistive or transformer coupled.
	2	BUUL	ining coad type		
					0: Resistive
					With this mode, only resistive loads should be connected directly to the power module
					1: Transformer
					With this configuration, the load is connected to the power module through a transformer. Only if transformer load supported

Eurotherm EPackECAT Object Dictionary rev3



by Schneider Electric

ndex	ObjectCode	SI	DataType	Name	Default D	escription
9000	RECORD			Power Module Configuration		·
	-	1	USINT	Power Module Type	P	ower Module Type identification: max current supported by HW (SCR/heatsink)
				· · · · · / · ·		inits: [A]
						255
		2	USINT	Maximum Current Rating Option		zus actory configured to indicate the maximum current supported by SW (chargeable option):
		2	031111	Maximum current Rating Option		
						nits: [A]
					0-	255
		he Module (0xA000 -	0xAFFF)			
(A000	RECORD			Strategy Status		
		1	UINT	Strategy Status Word	TI	his is a bitmap parameter that indicates the status of the
					st	trategy. The description of each bit and its meaning when it is
						et is a follows:
						it 0 : Network is not firing
						t 1. Network is not syncronised
						it 2-7; Reserved
						it 8 : Strategy is in Standby Mode
						it 9 : Strategy is in Telemetry Mode
					Bi	it 10 : Strategy is in Calibration Mode
					Bi	it 11-15 : Reserved
bject ar	ea of the device					
-	Semiconductor Dev	vice Profile Area				
kF000	RECORD			Semiconductor Device Profile		
	ALCOND	1	UINT	Index distance	0x10 In	ndex offset between PDO entries of two consecutive modules (for ETG.5003 = 0x10), e.g. 0x7000, 0x7010
		2	UINT	Maximum number of modules		to 255 modules are possible. A device can support less than this. This entry described the supported number of modules
		2	UINT		0 10x0	p to 255 modules are possible. A device can support less than this, this entry described the supported number of modules
0xF010	ARRAY			Module Profile List		
		1	UDINT			ach sub-index lists the profile-number of the corresponding module (hexadecimal representation, i.e. SDP 2000 is 0x07D0)Bit 150: SDP NumberBit 3116:
					0)	x0000
					0)	x0000001 = Common device profile
					0)	x0000080C = Temperature controller
	Exception Handling	Data				
xF380			USINT	Active Exception Status	А	condensed summary byte describing the collection of active device exceptions after corresponding masks (0xF3Ax) were applied. See CDP for additional
VOCIX	VAR		USINI	•		
125300	VAR		USINI		in	itormation.
XF30U	VAR		USINT			iformation.
XF36U	VAR		USINI		Bi	it 0: Device Warning
xr360	VAR		USINI		Bi Bi	it 0: Device Warning it 1: Manufacturer Warning
XF36U	VAR		USINI		Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error
xr36U	VAR		USINI		Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error
			USINI		Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error
	VAR		USINI	Active Device Warning Details	Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error
		1	UDINT	Active Device Warning Details Active Device Warning Details	Bi Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error
		1			Bi Bi Bi Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved
		1			Bi Bi Bi Bi Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure)
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 5 : Network TLF (Total Load Failure) it 6 : Reserved
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure) it 6: Reserved it 7: Network PLF (Partial Load Failure)
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 0-4 : Reserved it 5 : Network TLF (Total Load Failure) it 6 : Reserved it 7 : Network PLF (Partial Load Failure) it 8 : Reserved
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 0-4 : Reserved it 6 - Reserved it 6 : Reserved it 7 : Network TLF (Total Load Failure) it 6 : Reserved it 8 : Reserved it 9 : Network Over Volt
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 0-4 : Reserved it 5 : Network TLF (Total Load Failure) it 6 : Reserved it 7 : Network PLF (Partial Load Failure) it 7 : Network PLF (Partial Load Failure) it 8 : Reserved it 9 : Network Over Volt it 0 : Network Under Volt
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 0-4 : Reserved it 6 - Reserved it 6 : Reserved it 7 : Network TLF (Total Load Failure) it 6 : Reserved it 8 : Reserved it 9 : Network Over Volt
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 0-4 : Reserved it 5 : Network TLF (Total Load Failure) it 6 : Reserved it 7 : Network PLF (Partial Load Failure) it 7 : Network PLF (Partial Load Failure) it 8 : Reserved it 9 : Network Over Volt it 0 : Network Under Volt
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure) it 5: Network TLF (Total Load Failure) it 7: Network PLF (Partial Load Failure) it 8: Reserved it 9: Network Voer Volt it 9: Network Voer Volt it 10: Network VInder Volt
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure) it 6: Reserved it 7: Network PLF (Partial Load Failure) it 8: Reserved it 9: Network Over Volt it 9: Network Voer Volt it 10: Network Voer Volt it 11: Network Pre Temp: Reserved it 12: Network Over Current it 12: Network Over Current
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4 : Reserved it 0-4 : Reserved it 0-4 : Reserved it 5 : Network TLF (Total Load Failure) it 6 : Reserved it 7 : Network PLF (Partial Load Failure) it 8 : Reserved it 9 : Network Over Volt it 1 : Network Vorer Volt it 1 : Network Vret Temp: Reserved it 1 : Network Vret Current it 13-14 : Reserved it 13-14 : Reserved
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure) it 6: Reserved it 7: Network PLF (Partial Load Failure) it 6: Reserved it 7: Network VDEF (Partial Load Failure) it 8: Reserved it 9: Network Over Volt it 10: Network Vore Volt it 11: Network Pre Temp: Reserved it 12: Network Vore Current it 13: Al: Reserved it 13: Al: Reserved it 13: Hetwork Over Current it 13: Al: Reserved it 15: FaultDet External Input it 16: Control Closed Loop
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure) it 5: Network TLF (Total Load Failure) it 6: Reserved it 7: Network PLF (Partial Load Failure) it 8: Reserved it 9: Network Over Volt it 10: Network Over Volt it 10: Network Vore Toth it 11: Network Pre Temp: Reserved it 13: Al-: Reserved it 13: Al-: Reserved it 13: FaultDet External Input it 15: FaultDet External Input it 16: Control Closed Loop it 17: Control Transfer active
		1			Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi Bi B	it 0: Device Warning it 1: Manufacturer Warning it 2: Device Error it 3: Manufacturer Error it 47: Reserved it 0-4: Reserved it 5: Network TLF (Total Load Failure) it 6: Reserved it 7: Network PLF (Partial Load Failure) it 6: Reserved it 7: Network VDEF (Partial Load Failure) it 8: Reserved it 9: Network Over Volt it 10: Network Vore Volt it 11: Network Pre Temp: Reserved it 12: Network Pre Temp: Reserved it 13: At : Reserved it 15: FaultDet External Input it 16: Control Closed Loop

0xF383 RECORD

by Schneider Electric



Index	ObjectCode	SI	DataType	Name	Default	Description
		1	UDINT	Active Device Error Details		Bit 0 : Network Missing mains
						Bit 1 : Network Thyristor Shot Circuit
						Bit 2 : Network Over Temp: Reserved
						Bit 3 : Network Dips
						Bit 4 : Network Frequency Fault
						Bit 5 : Reserved
						Bit 6 : Network Chop Off
						Bit 7-31 : Reserved
DxF387	RECORD			Active Global Device Error Details		
		1	UDINT	Active Global Device Error Details		Bit 0-13 : Reserved
						Bit 14 : AnalogIP Over Current
						Bit 15-23 : Reserved
						Bit 24 : Any bit in Global Status word 0 (FA07.1)
						Bit 25 : Any bit in Global Status word 1 (FA07.2)
						Bit 26 : Any bit in Global Status word 2 (FA07.3)
						Bit 27-31 : Reserved
0xF390	VARIABLE		USINT	Latched Exception Status		A condensed summary byte describing the collection of device exceptions after corresponding masks (0xF3Ax) were applied. See CDP for additional information
						Bit 0 : Device Warning
						Bit 1: Manufacturer Warning
						Bit 2: Device Error
						Bit 3: Manufacturer Error
						Bit 47: Reserved
0xF391	RECORD			Latched Device Warning Details		
		1	UDINT	Latched Device Warning Details		Bit 0-4 : Reserved
				-		Bit 5 : Network TLF (Total Load Failure)
						Bit 6 : Reserved
						Bit 7 : Network PLF (Partial Load Failure)
						Bit 8 : Reserved
						Bit 9 : Network Over Volt
						Bit 10 : Network Under Volt
						Bit 11: Network Pre Temp: Reserved
						Bit 12: Network Over Current
						Bit 13-14 : Reserved
						Bit 15 : FaultDet External Input
						Bit 15: Control Closed Loop
						Bit 12: Control Transfer active
						Bit 18 : Control Limit active
DvE202	RECORD			Latched Device Error Details		Bit 19-31 : Reserved
JAI 373	NECOND	1	UDINT	Latched Device Error Details		Bit 0 : Network Missing mains
		1	ODINT			Bit U : Network Missing mains Bit 1 : Network Thyristor Shot Circuit
						Bit 2 : Network Over Temp: Reserved
						Bit 3 : Network Dips
						Bit 4 : Network Frequency Fault
						Bit 5 : Reserved
						Bit 6 : Network Chop Off
	RECORD			Latched Global Device Error Details		Bit 7-31 : Reserved
JXF397	RECURD		UDINT			Dit 0.10 - Deserved
		1	UDINT	Latched Global Device Error Details		Bit 0-13: Reserved
						Bit 14 : AnalogIP Over Current
						Bit 15-23 : Reserved
						Bit 24 : Any bit in Global Status word 0 (FA07.1)
						Bit 25 : Any bit in Global Status word 1 (FA07.2)
						Bit 26 : Any bit in Global Status word 2 (FA07.3)
						Bit 27-31 : Reserved
	RECORD			Device Warning Mask		



ndex	ObjectCode	SI	DataType	Name	Default	Description
		1	UDINT	Device Warning Mask	0x000716A0	Bitmask to include the corresponding device warning exception bits in the active and latched exception status objects (0xF380 bit 0 and 0xF390 bit 0), if the
						corresponding bit is TRUE.
						Bit 0-4 : Reserved
						Bit 5 : Network TLF (Total Load Failure)
						Bit 6 : Reserved
						Bit 7 : Network PLF (Partial Load Failure)
						Bit 8 : Reserved
						Bit 9 : Network Over Volt
						Bit 10 : Network Under Volt
						Bit 11 : Network Pre Temp: Reserved
						Bit 12 : Network Over Current
						Bit 13-14 : Reserved
						Bit 15 : FaultDet External Input
						Bit 16 : Control Closed Loop
						Bit 17 : Control Transfer active
						Bit 18 : Control Limit active
						Bit 19-31 : Reserved
kF3A3	RECORD			Device Error Mask		
		1	UDINT	Device Error Mask	0x0000005F	Bitmask to include the corresponding device error exception bits in the active and latched exception status objects (0xF380 bit 2 and 0xF390 bit 2), if the
						corresponding bit is TRUE.
						Bit 0 : Network Missing mains
						Bit 1 : Network Thyristor Shot Circuit
						Bit 2 : Network Over Temp: Reserved
						Bit 3 : Network Dips
						Bit 4 : Network Frequency Fault
						Bit 5 : Reserved
						Bit 6 : Network Chop Off
						Bit 7-31 : Reserved
						Note: modifiying this mask can lead to unexpected behaviour of Power Controller
JxF3A7	RECORD			Global Device Error Mask		
		1	UDINT	Global Device Error Mask	0x07004000	Bitmask to include the corresponding device error exception bits in the active and latched exception status objects (0xF380 bit 2 and 0xF390 bit 2), always TRUE (
						maskable).
						Bit 0-13 : Reserved
						Bit 14 : AnalogIP Over Current
						Bit 15-23 : Reserved
						Bit 24 : Config Error, i.e. any bit in Global Status word 0 (FA07.1) (non maskable)
						Bit 25 : Hardware Error, i.e. any bit in Global Status word 1 (FA07.2) (non maskable)
						Bit 26 : Data Error, i.e. any bit in Global Status word 2 (FA07.3) (non maskable)
						Bit 27-31 : Reserved
	Manufacturer Spec	ific Device Data				
xF500	RECORD			User Value (real)		
		1	REAL	UserVal1 value		
		2	REAL	UserVal2 value		
		3	REAL	UserVal3 value		
		4	REAL	UserVal4 value		
xF501	RECORD			User Value (integer)		
		1	UINT	UserVal1 value		
		2	UINT	UserVal2 value		
		3	UINT	UserVal3 value		
		4	UINT	UserVal4 value		
	SDP Device Specific	Inputs				
xF600				Analog Interface		Analog input of the device
		1	REAL	Analog Input Measured value in true units		Value measured at the instrument terminals and displayed in electrical units.
				•		Only if Analog Input supported
		2	REAL	Analog Input Scaled output value in process units		Scaled output value in process units. PV is clipped to RangeHigh on input going Over Range and to RangeLow on input going Under Range
		2	REAL	Analog Input Scaled output value in process units		Scaled output value in process units. PV is clipped to RangeHigh on input going Over Range and to RangeLow on input going Under Range. Only if Analog Input supported



	ObjectCode	SI	DataType	Name	Default Description	
		1	BOOL	Digital Input 1 Measured value	Value measured at the instrument terminals.	
					When configured in "volt", a voltage higher than 4.4V is considered as an active level voltage , and a voltage lower than 2.2V is considered as a	a non-active leve
					voltage.	
					Only if Digital Input Supported	
		2	BOOL	Digital Input 1 Current state	The current state of the digital input (after any inversion has been applied)	
		2	BOOL	Digital liiput 1 current state		
					Only if Digital Input Supported	
		3	BOOL	Digital Input 2 Measured value	Value measured at the instrument terminals.	
					When configured in "volt", a voltage higher than 4.4V is considered as an active level voltage, and a voltage lower than 2.2V is considered as a	a non-active leve
					voltage.	
					Only if Digital Input Supported	
		4	BOOL	Digital Input 2 current state	The current state of the digital input (after any inversion has been applied)	
		•	5002	Signal impart 2 carrent state	Only if Digital Input Supported	
/EC03	RECORD			Relay Interface	only in Digital Input Supported	
IFOUZ	RECORD			-		
		1	BOOL	Relay Measured value	The measured value reflects the state of the relay coil, as follows:	
					0 = not energised	
					1 = energised	
	CDP Device Specific	: Inputs				
F6F0	RECORD			Input Latch Local Timestamp		
		1	UDINT	Input Latch Local Timestamp	Local controller time corresponding to the input latch time in microseconds. It starts at zero on device power-up.	
				······································	If device has physical inputs: time of latching those inputs	
					If device has no physical inputs: time immediately prior to writing to input SyncManager	
	(DDD) ()()	.			in device has no physical inputs, time inimediately phor to writing to input synchranager	
	SDP Device Specific	Outputs				
(F700	RECORD			Relay		
		1	BOOL	Relay Process value	This is the desired value. The relay is configured as a fail-safe output.	
					This means that the relay is energised when the PV is set to zero.	
	SDP Device Specific	Configuration Data				
(F800	RECORD			Analog Interfaces Settings		
		1	UINT8	Analog Input Type	Specify input type in terms of volts or current and the range in which it is to be scaled.	
					0:0-10V	
					1: 1-5V	
					2: 2-10V	
					3: 0-5V	
					4: 0-20mA	
					5: 4-20mA	
					6-255: Reserved	
					Only if Analog Input supported	
		3	REAL	Analog Input Range High	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the ir	nput going over I
		3	REAL	Analog Input Range High		nput going over i
		3	REAL	Analog Input Range High	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the ir	nput going over i
		3	REAL	Analog Input Range High Analog Input Range Low	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the ir	
					High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in	
					High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the ir Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range.	
·F801	RECORD			Analog Input Range Low	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in	
(F801	RECORD	4	REAL	Analog Input Range Low Digital Interfaces Settings	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported	
xF801	RECORD			Analog Input Range Low	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure.	
xF801	RECORD	4	REAL	Analog Input Range Low Digital Interfaces Settings	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. O: Logic Input	
<f801< td=""><td>RECORD</td><td>4</td><td>REAL</td><td>Analog Input Range Low Digital Interfaces Settings</td><td>High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure.</td><td></td></f801<>	RECORD	4	REAL	Analog Input Range Low Digital Interfaces Settings	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure.	
F801	RECORD	4	REAL	Analog Input Range Low Digital Interfaces Settings	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. O: Logic Input	
F801	RECORD	4	REAL	Analog Input Range Low Digital Interfaces Settings	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2-255: Reserved	
F801	RECORD	4	REAL UINT8	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported	
(F801	RECORD	4	REAL	Analog Input Range Low Digital Interfaces Settings	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2-255: Reserved Only if Digital input Supported	
(F801	RECORD	4	REAL UINT8	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the inprange. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. O: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value).	
xF801	RECORD	4	REAL UINT8	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the inprange. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2:255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No	
<f801< td=""><td>RECORD</td><td>4</td><td>REAL UINT8</td><td>Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type</td><td>High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the inprange. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. O: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value).</td><td></td></f801<>	RECORD	4	REAL UINT8	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the inprange. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. O: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value).	
xF801	RECORD	4	REAL UINT8	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. O: Logic Input 1: Contact Input 2:255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). O: No 1: Yes	
xF801	RECORD	4	REAL UINT8 BOOL	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type Digital Input 1 Invert	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2:255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No 1: Yes Only if Digital Input Supported	
<f801< td=""><td>RECORD</td><td>4</td><td>REAL UINT8</td><td>Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type</td><td>High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the inprange. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2:255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No 1: Yes Only if Digital Input Supported Specify the digital Input Supported Specify the digital Input Supported</td><td></td></f801<>	RECORD	4	REAL UINT8	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the inprange. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2:255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No 1: Yes Only if Digital Input Supported Specify the digital Input Supported Specify the digital Input Supported	
F801	RECORD	4	REAL UINT8 BOOL	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type Digital Input 1 Invert	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: No 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input	
F801	RECORD	4	REAL UINT8 BOOL	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type Digital Input 1 Invert	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: No 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input	
F801	RECORD	4	REAL UINT8 BOOL	Analog Input Range Low Digital Interfaces Settings Digital Input 1 Type Digital Input 1 Invert	High input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeHigh on the in Only if Analog Input supported Low input range for scaling to process units used to scale the electrical value to a PV in process units. The PV is clipped to RangeLow on the in range. Only if Analog Input supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input 1: Contact Input 2-255: Reserved Only if Digital Input Supported Invert the sense of the digital IO The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value). 0: No 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: No 1: Yes Only if Digital Input Supported Specify the digital IO type, this can be input volts or contact closure. 0: Logic Input	



ndex	ObjectCode	SI	DataType	Name	Default	Description
		5	BOOL	Digital Input 2 Invert		Invert the sense of the digital IO
				5		The PV is inverted relative to the electrical signal present on the instrument terminals (Measured Value).
						0: No
						i Yes
						Ch vi f Digital Input Supported
vE803	RECORD			Relay Interface Settings		Univ i Digital input supported
AFOUZ	RECORD	1	UINT8	Relay Safe State Action		The relay behavior in the safe state:
		1	UINT8	Relay Sale State Action		
						0: Relay not energised
						1: Relay normal processing
						2-255: Reserved
						Only if Relay supported
	SDP Device Specific	c Information Data				
xF907	RECORD			Device Configuration		
		1	UINT8	Auxiliary Power Supply Type		Type of Auxiliary Power Supply:
						0: 24V
						1:500V
						2-255: Reserved
		2	USINT	Feature Option		This is a bitmap parameter that indicates the feature option available:
						Bit 0: Current Limit
						Bit 1: Transfer
						bit 2: Power Control
						Bit 3: Energy
						Bit 4: Graphical Wiring Editor
						Bit 5: Reserved
						Bit 6: OEM Security
						Bit 7: Reserved
						Only if feature option supported
		3	STRING(3)	FoE Configuration file version		Version of configuration file compatible for this device
				5		Format is "Vxx" where xx represents version digit (e.g. V01)
						Only if CFG file over FoE supported
	CDP Device Specific	c Information Data				
0xF9F0	VARIABLE		STRING(10)	Manufacturer Serial Number		A string representing the manufacturer's serial number for the device.NOTE: This may have the same value as 0x1018:04.
xF9F1	ARRAY		(-)	CDP Functional Generation Number		
		1	UDINT		0x0000002	Common Device Profile Functional Generation Number
0xF9F2	ARRAY	-	00.111	SDP Functional Generation Number	0,0000002	
	/	1	UDINT		0,0000000	SDP functional generation number off nn-th module
		1	ODINT		0x0000000	
0xF9F3			CTDINC(47)	Man dan Nama		It shall be specified by each SDP.
JXF9F3	VARIABLE		STRING(17)	Vendor Name	Eurotherm	This string identifies the supplier of the device.
					Limited	
0xF9F4	RECORD			Semiconductor SDP Device Name		
		1	STRING(3)	Semiconductor SDP Device Name	N/A	String identifying the device type of nn-th module as defined by the SDP.
0xF9F5	RECORD			Output Identifier		
		1	USINT	Output Identifier		Output identifier of nn-th module, This value can be mapped to both the RxPDO and TxPDO. The required function of the slave device is to store the value in
						memory as written by the host. The master can then read this value back through the TxPDO to ensure the RxPDO was received.
						-
	VARIABLE		UDINT	Time since power on		This is the time the device has been currently powered on, in seconds, regardless of communication presence.
ЈХГЭГБ	VARIABLE		UDINT	Firmware Update Functional Generation Number	0x00000001	Firmware Update Functional Generation Number supported by the device.
					5.0000001	Value shall be specified by the Firmware Update Profile (ETG.5003-2)
						value shall be specified by the firmware opdate Frome (ETG.5005-2)
						0x00000000; EW Lindate according to ETG 5003-2 not supported. A device capport return this value and still be compliant with ETG 5003-1 as ETC 5003-2
						0x00000000: FW Update according to ETG.5003-2 not supported. A device cannot return this value and still be compliant with ETG.5003.1, as ETG.5003-2
		Diamatic				0x00000000: FW Update according to ETG.5003-2 not supported. A device cannot return this value and still be compliant with ETG.5003.1, as ETG.5003-2 compliance is mandatory.
0xF9F8	SDP Device Specific	c Diagnosis				
DxF9F8				Analog Interface Diagnosis		compliance is mandatory.
0xF9F6 0xF9F8 0xFA00	SDP Device Specific	c Diagnosis	UINT	Analog Interface Diagnosis Analog input over current status		compliance is mandatory. Analog Input over current bitfield
0xF9F8	SDP Device Specific		UINT			compliance is mandatory.
DxF9F8	SDP Device Specific		UINT			compliance is mandatory. Analog Input over current bitfield
DxF9F8 DxFA00	SDP Device Specific RECORD		UINT			compliance is mandatory. Analog Input over current bitfield bit 0: Analog Input 1 over current
DxF9F8 DxFA00	SDP Device Specific RECORD			Analog input over current status Global Status		compliance is mandatory. Analog Input over current bitfield bit 0: Analog Input 1 over current bit 1-15: Reserved
0xF9F8	SDP Device Specific RECORD	1	UDINT	Analog input over current status Global Status Config Global Status		compliance is mandatory. Analog Input over current bitfield bit 0: Analog Input 1 over current bit 1-15: Reserved Config error bitfield (manufacturer specific)
0xF9F8 0xFA00	SDP Device Specific RECORD			Analog input over current status Global Status		compliance is mandatory. Analog Input over current bitfield bit 0: Analog Input 1 over current bit 1-15: Reserved

Eurotherm.	
by Schneider Electric	

Eurotherm EPackECAT Object Dictionary rev3



Index	ObjectCode	SI	DataType	Name Default	Description
	CDP Command Objects				
0xFBF0	RECORD			Device Reset Command	Execution of this command causes the device to emulate a complete power cycle. This includes an ESC reset. Some devices may require this reset to maintain a
					specific state not matching power cycle behavior for proper operation, per the SDP.
					NOTE: As a consequence of an ESC reset all of the subsequent devices are disconnected from the network.
					There are two versions of this command:
					Device Reset: Backup parameters will not change as a result of this reset. All setting parameters will revert to power-on defaults as a result of the reset.
					Factory Reset: All backup parameters will be changed to their as-shipped defaults. All setting parameters will revert to power-on defaults as a result of the reset.
		1	ARRAY [05] OF BYTE	Command	A device reset is initiated when the following byte sequence is sent:
					Byte 0: 0x74
					Byte 1: 0x65
					Byte 2: 0x73
					Byte 3: 0x65
					Byte 4: 0x72
					Byte 5: Device Standard Reset = 0x00, Factory Reset = 0x66
		2	USINT	Status	Supported values:
					0: Default value if the command has not been initiated. Not a supported value otherwise.
					1: Reserved
					2: last command completed, error, no response
					3: Reserved
					3-99: Reserved,
					100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%)
					201-254: Reserved,
					255: command is executing (if the percentage display is not supported)
		4	ARRAY [01] OF BYTE	Response	Byte 0: see Subindex 2
					Byte 1: Unused - Shall be zero
0xFBF1	RECORD			Exception Reset Command	Execution of this command clears the latched exceptions. Execution of this command may also optionally acknowledge device or SDP-specific exceptions (if
					specified) that would otherwise require a separate acknowledgement action to resume normal operation. If this is required, it shall be noted in the SDP or device
					documentation.
		1	ARRAY [04] OF BYTE	Command	A Latched Exception Reset is initiated when the following byte sequence is sent:
					Byte 0: 0x74
					Byte 1: 0x65
					Byte 2: 0x73
					Byte 3: 0x65
					Byte 4: 0x72
		2	USINT	Status	Supported values:
					0: last command completed, no error, no response
					1: Reserved
					2: last command completed, error, no response
					3: Reserved
					3-99: Reserved,
					100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%)
					201-254: Reserved,
					255: command is executing (if the percentage display is not supported)
		3	ARRAY [01] OF BYTE	Response	Byte 0: see Subindex 2
					Byte 1: Unused - Shall be zero
0xFBF2	RECORD			Store Parameters Command	Execution of this command will store all parameters to non-volatile memory. If a device automatically saves all non-volatile parameters at the time they are
					written, this command will not take any action. In the event that this command may interfere with the safe or expected functional operation of a device, it may be
					optionally restricted to functioning only in certain functional conditions while in OPERATIONAL state. If the command cannot be performed due to this operating
					condition, the Abort Code "0x08 00 00 21" shall be returned. In this case, documentation shall be supplied detailing the proper condition to execute this command.
					All devices shall be able to execute this command in PREOP without restriction.

Eurotherm EPackECAT Object Dictionary rev3



1 2 4	ARRAY [03] OF BYTE USINT ARRAY [01] OF BYTE	Status Response	Read: Bit 0 = 1: slave saves the non-volatile parameters when writing 0xFBF2:01 with 0x65766173 Bit 1 = 1: slave saves the non-volatile parameters automatically when they are written Bit 2-31: reserved, shall be 0 Write: All writable, non-volatile values will be stored in non-volatile memory when the following is sent: Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3: 99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2 Byte 0: see Subindex 2
		Response	Bit 1 = 1: slave saves the non-volatile parameters automatically when they are written Bit 2-31: reserved, shall be 0 Write: All writable, non-volatile values will be stored in non-volatile memory when the following is sent: Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 3: Pserved 3: Pserved, 0: last command completed, error, no response 3: Reserved, 0: last command to the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 2020: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Bit 1 = 1: slave saves the non-volatile parameters automatically when they are written Bit 2-31: reserved, shall be 0 Write: All writable, non-volatile values will be stored in non-volatile memory when the following is sent: Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 3: Pserved 3: Pserved, 0: last command completed, error, no response 3: Reserved, 0: last command to the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 2020: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Write: All writable, non-volatile values will be stored in non-volatile memory when the following is sent: Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	All writable, non-volatile values will be stored in non-volatile memory when the following is sent: Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	All writable, non-volatile values will be stored in non-volatile memory when the following is sent: Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Byte 0: 0x73 Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3:-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Byte 1: 0x61 Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Byte 2: 0x76 Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Byte 3: 0x65 If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	If other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned. Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	Supported values: 0: last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
		Response	0: Last command completed, no error, no response 1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		1: Reserved 2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		2: last command completed, error, no response 3: Reserved 3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		3: Reserved 3-99: Reserved, 100-200: Indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		3-99: Reserved, 100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%) 201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		201-254: Reserved, 255: command is executing (if the percentage display is not supported) Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		Byte 0: see Subindex 2
4	ARRAY [01] OF BYTE		Byte 0: see Subindex 2
			Byte 1: Unused - Shall be zero
		Calculate Checksum Command	Execution of this command will calculate a checksum for all writable, non-volatile parameters as currently stored in non-volatile memory. In the event that this
			calculation may interfere with the safe or expected functional operation of a device, it may be optionally restricted to functioning only in certain functional
			conditions while in OPERATIONAL state. If the Checksum cannot be calculated the Abort Code "0x08 00 00 21" shall be returned. In this case, documentation sh
			be supplied detailing the proper condition to execute this command. All devices shall be able to calculate the checksum in PREOP without restriction. Even if the
			manufacturer chooses to store the checksum itself in non-voltile or volatile memory, the device shall perform the calcaluation at the time of executing this
			command and return this calculated value. This command shall therefore not return a value calculated prior to executing this command.
1	ARRAY [03] OF BYTE	Command	Read: Returns information about the supported checksum type
			Bit 0 = 0: no non-volatile parameters supported
			Bit 0 = 1: non-volatile parameters supported, at least 1 of the defined bits 1-7 shall be set
			Bit 1 = 1: CRC-32
			Bit 2 = 1: MD5
			Bit 3 = 1: SHA-1
			Bit 4-6: Reserved, shall be 0
			Bit 7 = 1: other algorithm
			Bit 831: Reserved, shall be 0
			Write: Checksum Type Selection and Start Calculation
			A write access to this subindex shall only set one bit true in Bit[07]. If other values are written the Abort Code "0x06040043 Parameter is incompatible" shall l
			returned.
			Bit 0 = 1: Use default checksum algorithm of the slave
			Bit 1 = 1: CRC-32
			Bit 2 = 1: MD5
			Bit 3 = 1: SHA-1
			Bit 4-6: Reserved, shall be 0
			Bit 7 = 1: other algorithm
			Bit 831: Reserved, shall be 0
	1	1 ARRAY [03] OF BYTE	1 ARRAY [03] OF BYTE Command

Eurotherm.
by Schneider Electric

Eurotherm EPackECAT Object Dictionary rev3



ex ObjectCode	SI	DataType	Name	Default	Description
	2	USINT	Status		Supported values:
					0: Default value if the command has not been initiated. Not a supported value otherwise.
					1: last command completed, no error, reply there
					2: last command completed, error, no response
					3: Reserved
					3-99: Reserved,
					100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%)
					201-254: Reserved,
					255: command is executing (if the percentage display is not supported)
	4	ARRAY [05] OF BYTE	Response		Byte 0: see Subindex 2
					Byte 1: Unused - Shall be zero
					Byte 2-n: Checksum return value. Size varies depending on checksum type used. The maximum length shall be 64 bytes.
F4 RECORD			Load Parameters Command		Execution of this command will load all parameters from non-volatile memory. If a device automatically saves all non-volatile parameters at the time they are
					written, this command will not take any action. In the event that this command may interfere with the safe or expected functional operation of a device, it may
					optionally restricted to functioning only in certain functional conditions while in OPERATIONAL state. If the command cannot be performed due to this operatin
					condition, the Abort Code "0x08 00 00 21" shall be returned. In this case, documentation shall be supplied detailing the proper condition to execute this comm
					All devices shall be able to execute this command in PREOP without restriction.
	1	ARRAY [03] OF BYTE	Command		Read:
					Bit 0 = 1: slave loads the non-volatile parameters when writing 0xFBF4:01 with 0x64616F6C
					Bit 1 = 1: slave saves the non-volatile parameters automatically when they are written
					Bit 2-31: reserved, shall be 0
					Write:
					All writable, non-volatile parameters will loaded from non-volatile memory when the following is sent:
					Byte 0: 0x6C
					Byte 1: 0x6F
					Byte 2: 0x61
					Byte 3: 0x64
					f other values are written the Abort Code "0x06040043 General parameter incompatibility reason" shall be returned.
	2	USINT	Status		Supported values:
	2	USIN	Status		0: last completed, no error, no response
					1: Reserved
					2: last command completed, error, no response
					2. isst command completed, end, no response 3. Reserved
					3. Reserved.
					100-200: indicates how much of the command has been executed (in %, 100 = 0%, 200 = 100%)
					201-254: Reserved,
					255: command is executing (if the percentage display is not supported)
	4	ARRAY [01] OF BYTE	Kesponse		Byte 0: see Subindex 2
					Byte 1: Unused - Shall be zero