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profiTEMP+ SYSTEM pT+CUR Object Dictionary EtherCAT





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1 Supported products

EtherCAT	
profiTEMP+ SYSTEM pT+CUR	●

2 Communication parameters

Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x2000	0	[CP01] COM Software base address	0..255	USINT	X	X
0x2001	0	[CP02] COM protocol	0 – PSG (PSG-II) 1 – rtu (Modbus) 2 – Arburg 3 – rtuFanuc 4 – PSG-ETR132 (PSG- II)	USINT	X	X
0x2002	0	[CP03] COM baud rate	1 – 4800 2 – 9600 3 – 19200	USINT	X	X
0x2003	0	[CP04] COM stop bits	0 – 1 Stop bit 1 – 2 Stop bits	USINT	X	X
0x2004	0	[CP05] COM parity	0 – Off 1 – Even 2 – Odd	USINT	X	X
0x2005	0	[CP06] CAN base NodeID	1..127	USINT	X	X
0x2006	0	[CP07] CAN baud rate	0 – 78k 1 – 100k 2 – 125k 3 – 250k 4 – 500k 5 – 800k 6 – 1M	USINT	X	X
0x2008	0	[CP08] CAN auto operational mode	0-OFF 1-ON	BOOL	X	X
0x2009	0	[CP09] ETH IP1	0..255	USINT	X	X
0x200A	0	[CP10] ETH IP2	0..255	USINT	X	X
0x200B	0	[CP11] ETH IP3	0..255	USINT	X	X
0x200C	0	[CP12] ETH IP4	0..255	USINT	X	X
0x200D	0	[CP13] ETH subnet mask 1	0..255	USINT	X	X



Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x200E	0	[CP14] ETH subnet mask 2	0..255	USINT	X	X
0x200F	0	[CP15] ETH subnet mask 3	0..255	USINT	X	X
0x2010	0	[CP16] ETH subnet mask 4	0..255	USINT	X	X
0x2015	0	[CP20] ETH gateway 1	0..255	USINT	X	X
0x2016	0	[CP21] ETH gateway 2	0..255	USINT	X	X
0x2017	0	[CP22] ETH gateway 3	0..255	USINT	X	X
0x2018	0	[CP23] ETH gateway 4	0..255	USINT	X	X
0x2035	0	[CP29] Interface timeout	0...120s	USINT	X	X
0x2036	0	[CP30] Behavior on interface timeout	0...3	USINT	X	X
0x203A		[CP31] Parameter lock in interface mode	0 - Off 1 - On	BOOL	X	X
0x203B		[CP32] DHCP	0...255	USINT	X	X

3 System parameters

Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x2028	0	[SP01] Temperature unit	0 - °F 1 - °C	USINT	X	X
0x201A	0	[SP02] Automatic ramp tolerance band	0...25,5	INT	X	X
0x201B	0	[SP03] Automatic ramp setpoint change	0...999,9 °C	INT	X	X
0x201C	0	[SP04] Identifikation of potential on sensor input	0-Off 1-On	BOOL	X	X
0x201F	0	[SP05] Maximum residual current	0...999mA	UINT	X	X
0x2022	0	[SP06] Offset zone numbering	1...999	USINT	X	X
0x2020	0	[SP07] Prozess monitoring mode	0 – passive 1 – fully automatic 2 - manual	USINT	X	X
0x201E	0	[SP08] Boost	0-Off 1-On	BOOL	X	X
0x201D	0	[SP09] Standby	0-Off 1-On	BOOL	X	X
0x2021	0	[SP10] Head sink limit value	40... 120°C	USINT	X	X
0x2029	0	[SP11] Auto standby time	0...99,9min	UINT	X	X
0x2040	0	[SP12] Operating setpoint limit value relative	0 – Off 1 – On	BOOL	X	X
0x2030	0	[SP13] Switch-on delay	0... 999sec	UINT	X	X
0x2031	0	[SP14] Passive zones dimmed in user interface	0 – On 1 – Off	BOOL	X	X
0x2041	0	[SP15] MoldCheck quick test	0 – On	BOOL	X	X



Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x2032	0	[SP16] Alarmstatus storing	1 – Off 0 – Off 1 – On	BOOL	X	X
0x2042	0	[SP17] Query for MoldCheck start	0 – Off 1 – On	BOOL	X	X
0x2033	0	[SP18] Applikation	0...1	USINT	X	X
0x2034	0	[SP19] MoldCheck end temperature	0.0...500.0°C	USINT	X	X
0x2043	0	[SP20] Mains voltage	100...250V	UINT	X	X
0x2037	0	[SP21] Current limit SPL L1/L2/L3	0.0...999.9A	UINT	X	X
0x2044	0	[SP23] External sensor	0 – Off 1 – On	BOOL	X	X
0x2045	0	[SP24] Timer switch function	0 - deactivated 1 - Switch on heating	USINT	X	X
0x2046	0	[SP25] Timer switch weekday	0 – Monday 1 – Tuesday 2 – Wednesday 3 – Thursday 4 – Friday 5 – Saturday 6 – Sunday 7 – Monday – Friday 8 – Monday - Sunday	USINT	X	X
0x2047	0	[SP26] Timer switch hour	0...23	USINT	X	X
0x2048	0	[SP27] Timer switch minute	0...59	USINT	X	X

4 Channel parameters

Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x3000	1...192	[P006] Zone	0 – Off 1 – On	BOOL	X	X
0x3001	1..192	[P001] Setpoint	0..1999°C	INT	X	X
0x3004	1..192	[P003] Output value	0.0...100%	INT	X	X
0x3006	1..192	[P002] Manual mode	0 – Off 1 – On	BOOL	X	X
0x3008	1..192	[P004] Current setpoint value	0.0..999.9 A	UINT	X	X
0x3009	1..192	[P005] Current tolerance	0.0..100.0 %	UINT	X	X
0x300A	1..192	[P038] Type of zone	0 – Nozzle 1 - Manifold	USINT	X	X
0x300B	1...192	[P007] Standby setpoint value	-100...1999°C	USINT	X	X



Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x300C	1...192	[P008] Boost setpoint value	-100...1999°C	INT	X	X
0x300D	1...192	[P009] Lower setpoint value limit	0..1999 °C	INT	X	X
0x300E	1...192	[P010] Upper setpoint value limit	0..1999 °C	INT	X	X
0x300F	1...192	[P020] Manual mode after sensor break	0 – Off 1 – On	BOOL	X	X
0x3010	1...192	[P021] Temperature ramp	-9.9...99.9°C/min	INT	X	X
0x3011	1...192	[P022] Automatic ramp	0 – Off 1 – On	BOOL	X	X
0x3012	1...192	[P024] Leading zone correction	-99...100%	SINT	X	X
0x3013	1...192	[P023] Leading zone	0...255	UINT	X	X
0x3014	1...192	[P028] MoldCheck max. wait time	0.1...25.5min	UINT	X	X
0x3015	1...192	[P029] Limitation of output value	0.0...100.0%	INT	X	X
0x3016	1...192	[P030] Identification	0 – Off 1 – On	BOOL	X	X
0x3017	1...192	[P031] Loop control	0 – Off 1 – On	BOOL	X	X
0x3018	1...192	[P032] Cutback	0.0...20.0°C	UINT	X	X
0x3019	1...192	[P033] Algorithm	0..255 (see parameter description)	USINT	X	X
0x301A	1...192	[P034] Proportional band	0.1...25.5%	UINT	X	X
0x301B	1...192	[P035] Derivative time	0...999sec	UINT	X	X
0x301C	1...192	[P036] Integral time	0...999sec	UINT	X	X
0x301D	1...192	[P037] Sampling time	0.0...90.0sec	UINT	X	X
0x301E	1...192	[P011] Upper relative limit value	0...100°C	UINT	X	X
0x301F	1...192	[P012]] Lower relative limit value	-99...0°C	UINT	X	X
0x3020	1...192	[P013] Upper absolut limit value	0..1999 °C	UINT	X	X
0x3021	1...192	[P014] Lower absolut limit value	0..1999 °C	UINT	X	X
0x3022	1...192	[P015] Startup Mode	0 – Off 1 – On	BOOL	X	X
0x3023	1...192	[P016] Startup time	0.0...99.9min	UINT	X	X
0x3024	1...192	[P017] Boost time startup mode	0.0...99.9min	UINT	X	X
0x3025	1...192	[P018] Boost time	0.0...99.9min	UINT	X	X
0x3026	1...192	[P019] Automatic zone in leading mode	0 – Off 1 – On	BOOL	X	X
0x3027	1...192	[P025] Prozess monitoring toleranze	0...100%	UINT	X	X
0x3028	1...192	[P026] Operating point of process monitoring	-100...100%	UINT	X	X
0x3029	1...192	[P027] Head 'n' dry	0 – Off 1 – On	BOOL	X	X
0x3044	1...192	[P039] Limit value hysteresis	0.0...99.0	INT	X	X
0x3046	1...192	[P040] Sensor type	0...5	INT	X	X



Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x3048	1...192	[P042] External sensor NodeID	0..127 (see parameter description)	SINT	X	X
0x3049	1...192	[P043] External sensor input	0..16 (see parameter description)	SINT	X	X
0x304A	1...192	[P041] Monitoring of sensor TCs	0 – Off 1 – On	BOOL	X	X
0x304B	1...192	[P044] Temperature offset	-99.9...99.9°C	INT	X	X
0x304C	1...192	[P047] Relay heating	0..7 (see parameter description)	USINT	X	X
0x304D	1...192	[P048] Relay time	0.0...99.9min	UINT	X	X
0x304F	1...192	[P046] Group number	0..32 (see parameter description)	USINT	X	X

5 Process datas / Process status

Index	Subindex	Name	Wertebereich	TYP	RD	WR
0x3007	1..192	Actual setpoint value	-32768..32767	INT	X	X
0x3002	1..192	Actual value	-32768..32767	INT	X	O
0x3003	1..192	Zone mode	0..65535	UINT	X	O
0x2023	1...32	Inputs	0...255	USINT	X	X
0x2025	0...8	Outputs 1-8	0..0xFFFFFFFF	UDINT	X	X
0x2026	0...8	Outputs 9-16		UDINT	X	X
0x2027	0	Systemflag	0...255	USINT	X	X
0x302B	1...192	Channel flag 1/2	0..0xFFFF	UINT	X	X
0x302D	1...192	Channel flag 3/4	0..0xFFFF	UINT	X	X
0x302F	1...192	Channel flag 5/6	0..0xFFFF	UINT	X	X
0x3031	1...192	Channel flag 7/8	0..0xFFFF	UINT	X	X
0x3033	1...192	Channel flag 9/10	0..0xFFFF	UINT	X	X
0x3005	1...192	Current	-32768..32767	INT	X	O
0x3035	1...192	Current at heating OFF	-32768..32767	INT	X	O
0x3036	1...192	Current at heating ON	-32768..32767	INT	X	O
0x3037	1...192	Channel mode1/2	0..0xFFFF	UINT	X	X
0x3039	1...192	Channel mode3/4	0..0xFFFF	UINT	X	X
0x303F	1...192	Control byte	0..255	USINT	X	X
0x3040	1...192	Residual current	0..0xFFFF	UINT	X	X
0x3041	1...192	P	-128...127	SINT	X	X
0x3042	1...192	I	-128...127	SINT	X	X
0x3043	1...192	D	-128...127	SINT	X	X
0x2200	0	Code Number	0..0xFFFF	UINT	X	X
0x2202	0...3	Actual date	0...255	USINT	X	O
0x2203	0...3	Actual time	0...255	USINT	X	O



6 Appendix

6.1 Data types

The following data types are used in the tables.

Datum	Data width [Bit]	
BOOL	8	BOOL
USINT	8	Unsigned Short INT
SINT	8 (7 + sign)	Signed Short INT
UINT	16	Unsigned INT
INT	16 (15 + sign)	INT

6.2 Versions

Datum	Version	Änderung
20.03.2023	1.00.00	Initial Release