

Expert Logger – Techn. specifications

Expert Logger			
Device type	100	200	300
Analog inputs (mV, mA, TC)	16	32	46
Appropriate for RTD's	(8)	(16)	(23)
Sampling rate, set per channel	1/3Hz .. 1,000 Hz		
Voltage / current measurement range	± 156 mV .. ± 10 V / 0 .. 20 mA, 4 .. 20 mA, free		
Current reference for resistance measurement	None, 100 µA, 200 µA or 1 mA software switchable		
Resolution / input impedance	24 bit / GΩ		
Reference junction	yes / 2	yes / 4	yes / 6
Withstand voltage / galvanic isolation	± 100 VDC / ± 400 VDC to PE		
Channel to channel	± 110 VDC / ± 400 VDC		
Digital frequency inputs	4 to 8		–
Input signal	low: 0 .. 2 V / high: 5 .. 50 VDC@3.5 mA		–
Measurement range, frequency inputs / Broadcounter	0.2 Hz .. 1 MHz / 64 bit		–
Galvanic isolation	yes, up to ± 400 VDC to PE		–
Digital outputs (also PWM)	4 to 8		–
Max. switching voltage / current	50 V / 3 A		–
PWM basic frequency	5 Hz to 10 kHz		–
Pulse-width modulation / resolution	1:1000		–
Galvanic isolation	yes, up to ± 400 VDC to PE		–
Digital voltage reference	1		–
Current	up to 140 mA		–
Voltage	5 VDC		–
Short circuit proof	yes		–
Galvanic isolation	yes, up to ±400 VDC to PE		–
Data storage			
Data storage internal	2 .. 14 GB / ca. 30 million measurement values to GB		
Data storage external	USB, NFS, CIFS, (S)FTP		
Interfaces			
Sensor bus SDI12	1	1	–
Physical equipment COM 1 / COM 2	RS485, 9-pole Sub-D-plug, DIN EN ISO 19245-1		
Physical equipment COM 3	RS232, 9-pole Sub-D plugs		
LAN	1 x 1000Base-TX, 1 x 100Base-TX		
WLAN (optional to WWAN)	802.11b/g/n		
WWAN (optional to WLAN)	UMTS, LTE (configuration, real time data, email)		
USB	Device 2.0 low / full / high speed / Host 2.0 low speed		
CAN 2.0 / PROFIBUS	2x / 2x, max. 12 Mbit		
Protocols			
PROFIBUS	DPV1 Slave / passive sniffer		
RS 232 / 485	Modbus RTU, SCPI, ASCII		
CAN	CAN RAW		
TCP/IP	Modbus TCP, OPC UA		
General technical information			
Dimensions / weight	210 mm x 80 mm x 125 mm / 750 g		
Fixing	Rail mounting DIN EN 60715 or screw fixing		
Signal connections	Plug-in screw terminals, max. 1.5 mm ² , 96 in 2 rows		
Temperature range	-20 .. 60 °C		
Power supply	12 .. 24 VDC / ± 10 %		
Power input – normal mode	max. 10 W		
Power input – sleep mode	5 mW@12 V, 10 mW@24 V		