

# Expert Logger – Technical specifications

NEW

Device Type	100	200	300	400
<b>Analog inputs (mV, mA, TC)</b>	16	32	46	16
Appropriate for RTD's	(8)	(16)	(23)	(8)
Sampling rate	1000 Hz	2 groups per 1000Hz	3 groups per 1000Hz	1000 Hz
Voltage/current measurement range	±156 mV .. ±10V/0 .. 20 mA, 4 .. 20 mA, free			
Current reference for resistance measurement	None, 100 µA, 200 µA or 1 mA software switchable			
Strain gauge volt. ref. 5 VDC ± 10 mV	1	1	0	0
Resolution/input impedance	24 Bit/1 GΩ			
Internal reference junctions	yes/2	yes/4	yes/6	yes/2
Withstand voltage/galvanic isolation	±110VDC/±400VDC to PE, other channel group			
<b>Analog outputs</b>	0	0	0	6
Resolution	16 Bit			
Output ranges	0 .. 12V/±12V/0 .. 20 mA/4 .. 20 mA			
Galvanic isolation	±400VDC to system/PE			
Min. load/max. burden	625 Ω/950 Ω			
<b>Number of digital channels</b>				
Digital inputs to 1 MHz	3	3	0	0
Digital inputs to 250 Hz	1	1	1	1
Digital outputs	4	4	1	0
Digital inputs/outputs	4	4	0	24
<b>Technical information digital inputs</b>				
Input signal	low: 0 .. 1V/high: 5 .. 100VDC @3,5 mA			
Frequency range/width counter	0,2 Hz .. 1 MHz, respectively 0,2 Hz .. 250 Hz/64 Bit			
Galvanic isolation	±400VDC to PE, other channels			
<b>Technical information digital outputs</b>				
Max. switching voltage/current	50V/2,5A			
PWM function/Pulse duty factor	Basic frequency 5 Hz .. 10 kHz/1:1000			
Galvanic isolation	±400VDC to PE, other channels			
<b>Data storage</b>				
Data storage internal	2 .. 14 GB (30 million measurement values per GB)			
Data storage external	USB, NFS, CIFS, (S)FTP			
<b>Interfaces / protocols</b>				
Sensor bus SDI12	1	1	0	0
COM 1 and COM 2	RS 485, 9-pole sub-D plug/ASCII, Modbus RTU, PROFIBUS DPV1 Slave			
COM 3	RS 232, 9-pole sub-D plugs/ASCII, Modbus RTU			
LAN	1000 Base-T			
WLAN (alternative to WWAN)	802.11 b/g/n			
WWAN (alternative to WLAN)	UMTS, LTE max. 100 Mbit/s			
USB	Device 2.0 low/full/high speed/Host 2.0 low/full/high speed			
TCP/IP protocols (LAN, WLAN, WWAN, USB)	Modbus TCP, OPC UA			
CAN 1 and CAN 2	CAN RAW protocols, Delphin expansion bus			
<b>General technical information</b>				
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 <sup>2</sup> , 96 in 2 rows			
Temperature range	-20 .. 50 °C			
Power supply	12 .. 24VDC / ±10 %			
Power input normal mode	max. 10W			
Power input sleep mode	5 mW @ 12V, 10 mW @ 24V			

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