

Expert Transient

Inputs / Outputs

Analog inputs	8 or 16
Sampling rate, adjustable per channel	20 Hz .. 50 kHz
Usable signal range	DC .. 20 kHz
Voltage / current ranges	± 25 V / 0 .. 20 mA / 4 .. 20 mA / free
Signal conditioning, software switchable	None, AC-coupling, IEPE
Resolution / input impedance	24 bit / 4 M Ω
Dielectric withstand voltage	± 100 VDC
Galvanic isolation / channel to channel / channel to system / PE	± 400 VDC
Measurement accuracy	0.5 mV + 0.008 % from measurement
Digital inputs	4
Input signal	low: 0 .. 1 V / high: 5 .. 100 VDC@3.5 mA
Galvanic isolation / channel to channel / channel to system / PE	± 400 VDC
Max. input frequency / min. pulse width	1 MHz / 500 ns

Analog outputs	4
Resolution	16 bit
Output ranges	0 .. 10 V / \pm 10 V / 0 .. 20 mA / 4 .. 20 mA / \pm 20 mA
Galvanic isolation / channel to channel / channel to system / PE	\pm 400 VDC
Min. load / max. burden	650 Ω
Digital outputs	8
Switching voltage / current / PWM	50 V / 2.5 A / galvanically isolated / 5 Hz .. 10 kHz, to 1:1000
Data storage	
Internal / external	2 .. 14 GB (approximately 30 million measurements per GB) / USB, NFS, CIFS, (S)FTP
Signal conditioning functions	
High pass / low pass / bandpass filters	
Cut-off frequency / filter order / filter characteristics	5 Hz .. 20 kHz / 4, 6, 8, 10 / incl. Butterworth
Integrator / Differentiator	

Single or double-integrator / differentiator

Characteristic values from time signal

Maximum / minimum value, peak-to-peak value, arithm. average, TRMS, max, vect. sum, local min. / max, values

Characteristic values on digital input

Frequency 1 Hz .. 1 MHz

Counter 32 Bit, UP-Down counter, quadrantur decoder

Interfaces

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 plug

LAN 1 x 1000Base-TX

WLAN / WWAN (optional) 802.11b/g/n / GPRS, UMTS, LTE max. 100 Mbit/s

USB Device 2.0 / host 2.0 7 low / high / full

PROFIBUS 2 x PROFIBUS DPV1 / Slave max. 12 Mbit, also redundant according to PNO 2.212 V1.2, passive PROFIBUS sniffer

CAN / RS 232/485	2 x CAN 2.0 / Modbus RTU, SCPI, ASCII
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, 96 terminals in 2 rows, max. 1.5 mm ²
Temperature range	-20 .. 50° C
Power supply	12 .. 24 V / ± 10%
Power input	max. 10 W

Registered: 28.04.2017