All data overview

ProfiMessage / ProfiLab

Module type	ADVT / AAST / ADIT	ADGT	AMDT / ADFT
Analog inputs			
Sensors	mv, mA, Thermocouples, RTD (RTD except ADVT)	mv, mA, Thermocouples, RTD	mV, mA
Voltage and current measurement range	± 156 mV ± 10 V / 0 20 mA, 4 20 mA		
Galvanic isolation to system	750 VDC		
Galvanic isolation channel	110 V	650 V	100 V
Resolution	24 bit		14 bit
Measurement accuracy	V / mA: 0.01 % from upper range Pt100: 0.1 K Pt1000: 0.05 K	ge value	± 1.25 V ± 10 V: ± 0.1 % ± 0.625 V: ± 0.2 % ± 0.312 V: ± 0.3 %

	Thermocouples: 0.1 % EW	± 0.156 V: ± 0.4 %	
Analog outputs			
Resolution	16 bit -	12 bit	
Galvanic isolation	750 V -	100 V	
Output	0/4 20 mA -	0 10 V	
Max. burden / min. load	650 Ω -	2.5 kΩ	
Digital inputs			
Galvanic isolation	2.5 kV		
Input measurement range	low: 0 1.5 VDC@0 1.5 mA / high: 3.5 90 VDC@2 mA		
Frequency / counter ir	puts		
Galvanic isolation / input measurement range	2.5 kV / low: 0 1.5 VDC@0 1.5 mA / high: 3.5 90 VDC@2 mA		
Measurement frequency	up to 30 kHz		
Digital outputs			
Potential isolation	2.5 kV		
Switching voltage	max. 50 VDC@2.5 A		

Data storage

Internal	2 14 GB (approx. 40 million measurement values per GB / 300 million measurement values per GB for AMDT, ADFT)	
Interfaces		
Physical equipment COM 1 / COM 2	RS485, 9-pole sub-D-plug, DIN EN ISO 19245-1	
Physical equipment COM 3 / COM 4	RS232, 9-pole sub-D plugs	
Protocols COM 1 / COM 2	PROFIBUS DPV1 Slave (both interfaces), incl. redundancy according to PNO 2.212 V1.2	
Protocols COM 3 / COM 4	Modbus RTU master / slave, customer-specific protocols, ASCII	
Ethernet	RJ45 (8-pole STP-plug), 100Base-TX; Protocols: TCP/IP, HTTP, SMTP, NTP, Modbus TCP Client / server	
USB	USB 1.1. for configuration and data memory read out	
CAN	9-pole sub-D plug, Protocols: CAN, RAW; baud rates: 50 k 1 MBaud	
Module bus		
Mechanical type	3-pole Phoenix connector; internal bus to connect additional modules	
Baud rate / length	1 MBaud (adjustable) / up to 10 m	
General technical information		

ProfiMessage dimension / weight	200 x 73 x 118 mm / 1 kg
ProfiMessage fixing	Rail mounting DIN EN 60715 or screw fixing
ProfiMessage signal connections	Detachable screw terminals, 33 terminals in 2 rows, lead protection, connecting cabling max. 2.5 mm ²
ProfiLab dimension / weight	226 x 145 x 180 mm / 1 kg
ProfiLab signal connections	Up to 64 4 mm lab plugs, gold-plated
Temperature range	-20 50 °C
Power supply	12 36 VDC / 12 28 VAC eff. / ± 10 %
Power input	< 10 Watt

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