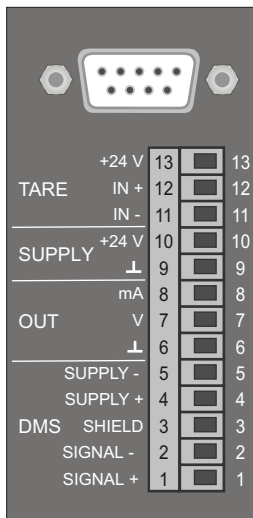


Digital amplifier for strain gauge

Characteristics



Input: up to 4 strain gauge full bridges (350 ohms / summation)

Input sensitivity: 0,1...5 mV/V

Sensor supply: 5 VDC

Analogue output: 4...20 mA / 0...10 V (standard version)

Voltage supply: 24 VDC +/-30%

Resolution: 12 / 14 / 15 / 16 bit

Combined error: 0,2% of end scale value

Degree of protection: IP 20

Taring: with external drive

Adjustment and output: RS232 interface

Enclosure: plastics

Mounting: top hat rail

Technical data

Input

Amplifier: up to 4 strain gauge full bridges 350 ohms (summation of signal)

Sensitivity: 0,1...5 mV/V (programmable)

Interface: RS232 (for programming)

Output

Analogue: 2 outputs (programmable)
0...10 V and 4...20 mA (standard)
optionally 2...10 V or 0...20 mA

Current: working resistance <500 Ohm

Voltage: load resistor > 600 Ohm

Interface: RS232

Sensor supply: 5 VDC 60 mA maximum

Adjustment

Interface: RS232

Measuring rate: 10 ms...5 s (programmable)

Filter: 10 ms...5 s (programmable)

Ambient conditions

Operating temperature: -10...+60°C

Storing temperature: -20...+70°C

Accuracy

Resolution: 12 / 14 / 15 / 16 bit (programmable)

at measuring rate: 128 / 32 / 16 / 8 per second

Combined error: +/- 0,2% of end scale value

Temperature coeff.: <50 ppm/K

Tare

Active: drive with 24 VDC (externally)

Passive: drive with potential free relay point (make contact)

Power supply

Voltage: 24 VDC, +/-30%

Power consumption: with options approx. 1,5 W

Residual ripple: 200 mV

Mechanics

Enclosure: plastics PA6

Dimension: W38 x D76 x H74

Mounting: top hat rail

Colour: black

Protection: degree IP 20

Weight: approx. 90 g

Connection: 13-pole pin and socket connector
9-pole Sub-D socket

Accessories

Programming: cable set with adaptor and software

Applications

Mounted in an adequate housing the digital measuring amplifier is suitable for nearly all applications. It can be matched easily to the local conditions with the interface. As output is available a standard signal and serial RS232 for the following processing.



photo: www.pixelquelle.de

Ordering code

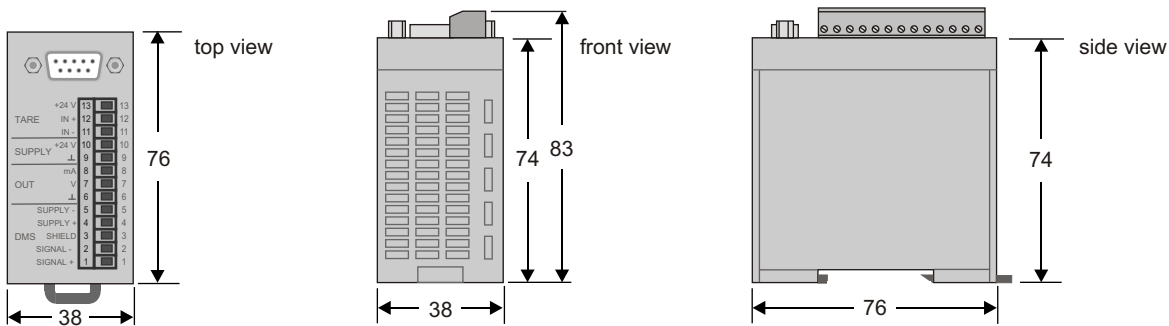
D	L	X	X	X	X	X	X	-	X	X	X
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Input:	0,1...5 mV/V	0
Output:	4...20 mA / 0...10 V	0
Supply:	24 VDC	0
Enclosure:	plastics for top hat rail	0
Adjustment:	factory-configuration*	0
	customized (please indicate)**	1
Other / accessories:	special model (please indicate)	0
	Sub-D cable set with adaptor and software for programming	1

*factory-set: sensitivity: 3 mV/V / analogue output: 0...10 V and 4...20 mA / resolution: 16 bit / measuring rate: 5/s / filter: 1s / tare: active (24 VDC)

**the possibilities of the technical data can be selected. In case of not given values the details of factory-set are used.

Dimensions (in mm)



Connection (example)

