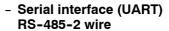
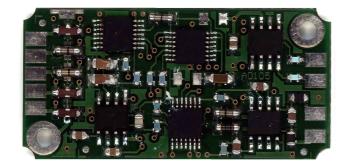
AD 105

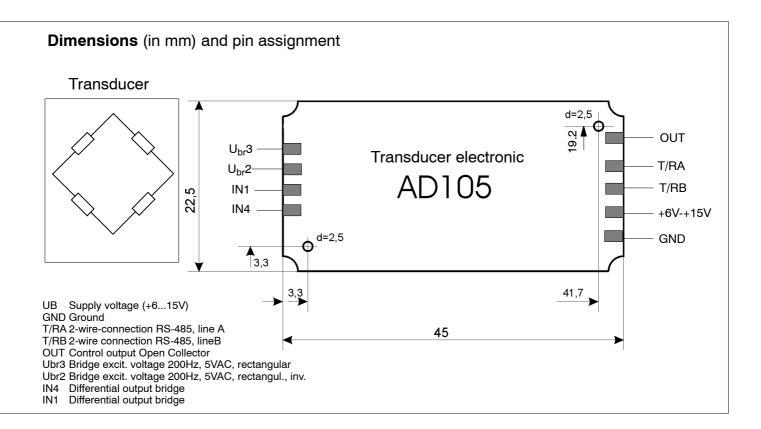
Digital transducer electronics





- Digital filtering and scaling of the measured signal
- Communication via ASCII commands
- 1 limit switch with hysteresis
- Supply voltage / status indicator
- Panel program for parameter settings and measurement
- Power fail-safe parameter storage
- Predestined for process control







Specifications

Туре		AD105
Accuracy with ≥ 1.0 μV/d	d	3000
Bridge resistance, transducer	Ω	> 300
Bridge excitation voltage	V	5 (AC)
Max. Measuring range	mV/V	± 2.4
Nom. characteristic value (for works delivery)	mV/V	2
Measuring signal resolution	Bit	20 (at 1Hz)
Measuring rate (depending on output format and baud rate)	Hz	100; 50; 25; 12; 6; 3; 2; 1
Cut-off frequency of digital filters, adjustable; at -3dB	Hz	80.05
Cable length between AED and computer with	m	≤ 1000
Linearity deviation, related to the characteristic value	%	± 0.0025
<u> </u>	70	1 0.0023
Temperature effect per 10K on the zero point, related to the nominal value	%	± 0.002
on the measuring sensitivity, related to the nominal value	%	± 0.002
<u> </u>	,,,	_ 0.000
Serial interfaces Electrical level (RS-485, differential)	V	Low: B-A < 0.35 High: B-A > 0.35
Baud rate, adjustable	Baud	1200; 2400; 4800; 9600; 19200; 38400
Max. voltage on the control output	V	15
Max. current load, control output	mA	40 (at 6V), 22 (at 15V)
Operating voltage (DC)	V	615
Current consumption (at 350-Ω-load cell)	mA	<u>≤</u> 45
Nominal temperature range	°C [°F]	-10+40 [14104]
Service temperature range	°C [°F]	-10+50 [14122]
Storage temperature range	°C [°F]	-25+75 [-13167]
Dimensions (LxBxH), pcb	mm	45 x 22.5 x 7
Degree of protection EN 60529, pcb		IP 00
Weight, pcb, approx.	g	50

Attention: The AD105 board is not protected against electrostatic discharges. Appropriate safety precautions must be taken for handling during assembly into the transducer.

Important notes for EMC protection

The AD105 board has to be assembled in a shielded housing. The wires has to be shielded. All screens need to be connected with the load cell and the housing of the AD105 board.

Additional information are described in the manual.

Modifications reserved.
All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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