

DATA SHEET

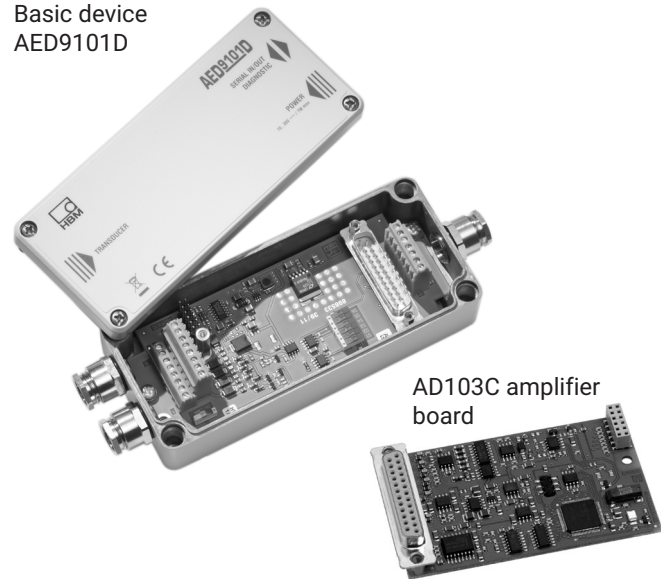
# AED9101D

## Basis device for AD103C

### SPECIAL FEATURES

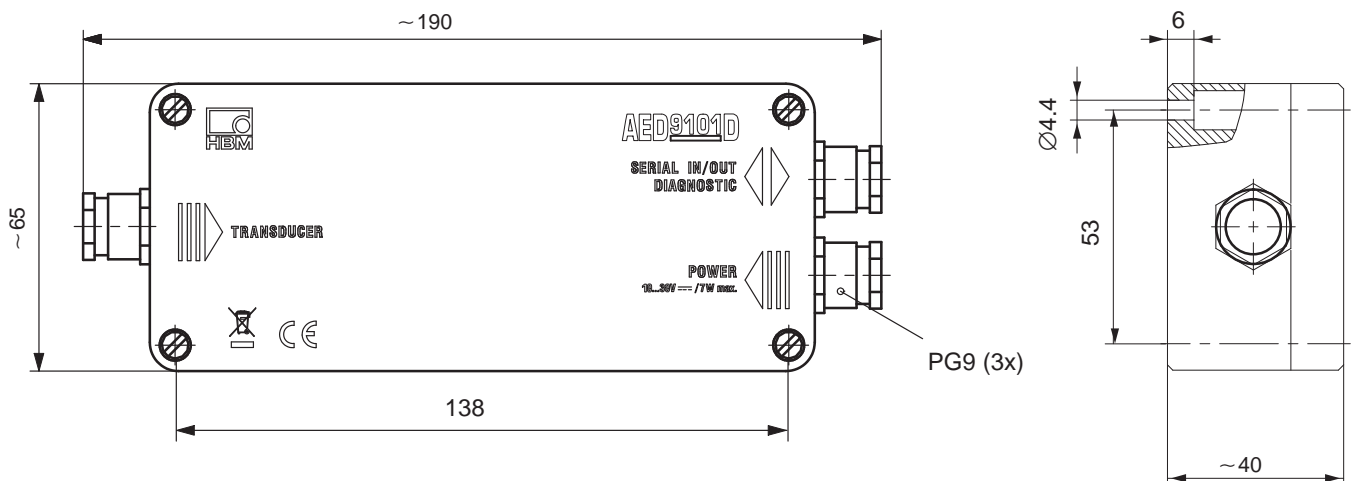
- For static and dynamic applications
- RS-232, RS-422 or RS-485 interfaces
- Test report available for 10,000 digits, class III
- Trigger input
- 10 ... 30 V supply voltage range
- Degree of protection IP65
- EMC protection
- Diagnostic bus for analysis and additional display

Basic device  
AED9101D



AD103C amplifier  
board

### DIMENSIONS



Dimensions (in mm; 1 mm = 0.03937 inches)

## SPECIFICATIONS

Type	AED9101D	
<b>Measuring amplifier</b>		<b>AD103C</b>
<b>Measurement signal input</b>	mV/V	± 3, nominal ± 2
<b>Transducer connection</b>		
SG transducer (full bridge)	Ω	40 ... 4000
Transducer connection type		6-wire circuit
Length of transducer cable	m	≤ 100
Bridge excitation voltage	V <sub>DC</sub>	5
<b>Interfaces</b>		
Hardware (selected by slide-switch)		RS-232, RS-422, RS-485
Length of communications cable	RS-232 m	≤ 15
	RS-422, RS-485 m	≤ 1000
Max. number of bus nodes (RS-485)		32
<b>Diagnosis bus (RS-485 2-wire)</b>		
Protocol		ASCII/binary
Baud rate, max.	kbit/s	38.4
Node address		0 ... 89
Length of communications cable, max.	m	1000
<b>Trigger input</b>		
Input voltage range, LOW	V	0 ... 1
Input voltage range, HIGH	V	2 ... 30
Input voltage range at High level = 30 V	mA	< 3
<b>Power supply</b>		
Supply voltage	V <sub>DC</sub>	10 ... 30
Current consumption (without load cell)	mA	≤ 100 <sup>1)</sup>
<b>Temperature range</b>		
Nominal (rated) temperature	°C	-10 ... +40
Operating temperature		-20 ... +60
Storage temperature		-25 ... +85
<b>Dimensions</b>	mm	190 x 65 x 40
<b>Weight, approx.</b>	g	440 (without AD10x)
<b>Degree of protection per EN 60529 (IEC 529)</b>		IP65

1)  $\text{Current consumption} \leq 100 \text{ mA} + \frac{\text{Excitation voltage } U_B = 5 \text{ V}}{\text{Bridge resistance } R_B}$

### Product numbers

1-AED9101D = Basic device AED9101D

1-AD103C = Amplifier board AD103C (see separate data sheet)

The complete documentation as well as parameterization and visualization software PanelX are available as a free download on the AED website: <https://www.hbm.com/en/2561/aed-digital-transducer-electronics/>

### Hottinger Brüel & Kjaer GmbH

Im Tiefen See 45 · 64293 Darmstadt · Germany

Tel. +49 6151 803-0 · Fax +49 6151 803-9100

[www.hbkworld.com](http://www.hbkworld.com) · [info@hbkworl.com](mailto:info@hbkworl.com)

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