

DATA SHEET

# AED9201B

## Basic device for AD103C

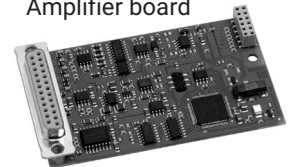
SPECIAL FEATURES

- RS-232 or RS-485 interfaces
- Two control inputs and four limit value outputs
- Six control inputs / outputs (Dosing function)
- Test report for 10 000 digits class III available
- 18...30 V Supply voltage range
- Degree of protection IP65
- EMC protection
- Diagnostics bus for analyzing and additional indication

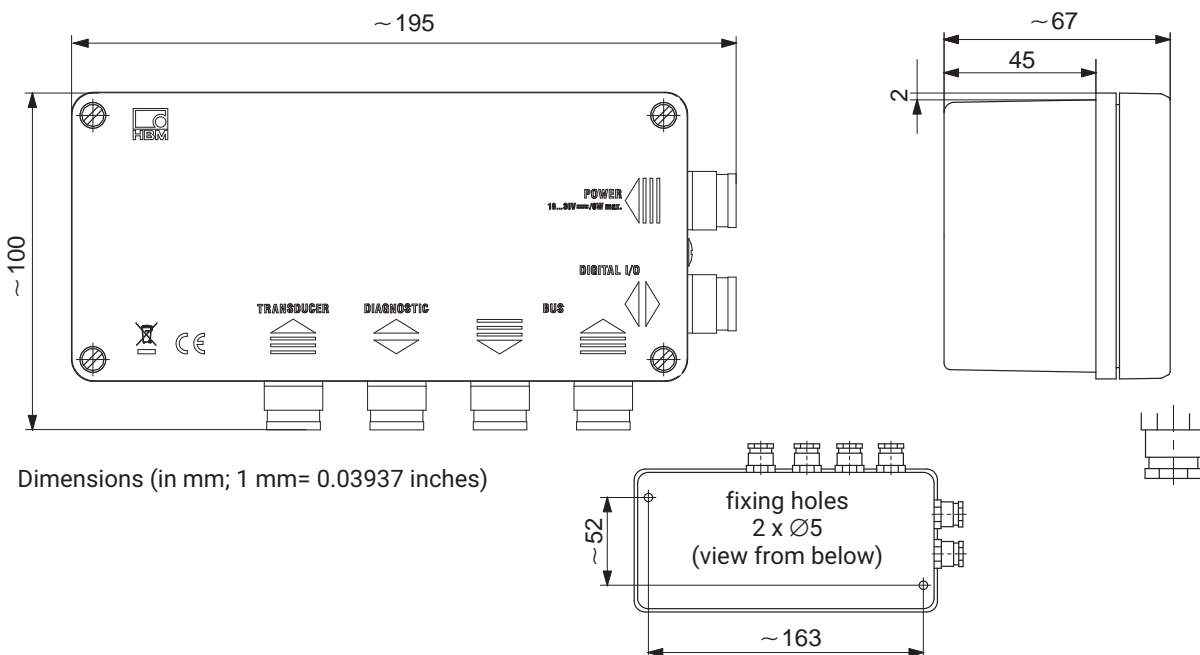
AED9201B  
Basic device



AD103C  
Amplifier board



DIMENSIONS



## SPECIFICATIONS

Type		AED9201B
<b>Measuring amplifier</b>		<b>AD103C</b>
<b>Measuring signal input</b>	mV/V	±3, nominal ±2
<b>Transducer connection</b>		
Strain gage transducer (full bridge)	Ω	≥80...4000
Transducer connection		6-wire circuit
Transducer cable length	m	≤100
Bridge excitation voltage	V <sub>DC</sub>	5
<b>Interfaces</b>		
Hardware (selectable via slide switch)		RS-232, RS-485 (4 wire)
Interface cable length	RS-232 m	≤15
	RS-485 m	≤1000
Max. number of bus members		90
<b>Control inputs (electrically isolated)</b>		
Number		2
Input voltage range, LOW	V	0...5
Input voltage range, HIGH	V	10...30
Input current, typ., HIGH-level = 24 V	mA	typ. 12
Insulation voltage, typ.	V <sub>DC</sub>	500
<b>Control outputs <sup>1)</sup> (electrically isolated)</b>		Supply from supply voltage
Number		4
Output current at LOW level (I <sub>OUT</sub> )	mA	<2
Output voltage HIGH level (U <sub>OUT</sub> )	V	>15 at I <sub>max</sub>
Output current, max. (I <sub>OUTmax</sub> )	mA	< 500, per output
Insulation voltage, typ.	V <sub>DC</sub>	500
<b>Diagnostics bus</b>		
Protocol		ASCII/Binary
Baud rate, max.	kbit/s	38.4
Node address		0 ... 89
Length of Interface cable, max.	m	1000
<b>Supply</b>		
Supply voltage (DC), nominal	V	18...30
Supply voltage (DC), minimal	V	15
Current consumption (without load cell and Output current)	mA	≤175 <sup>2)</sup>
<b>Temperature range</b>		
Nominal temperature	°C [°F]	-10...+40 [+14...+104]
Operating temperature		-20...+60 [-4...+140]
Storage temperature		-25...+85 [-13...+185]
<b>Dimensions</b>	mm	195 x 100 x 70
<b>Weight, approx.</b>	g	925 (without AD10x)
<b>Degree of protection according to EN 60529 (IEC 529)</b>		IP65

1) Depending on the external supply voltage

2) Current consumption =  $\leq 1/5 \text{ mA} + \frac{\text{Supply voltage } U_B = 5 \text{ V}}{\text{Bridge resistance } R_B} + \sum I_{\text{out } 1...6}$

## ORDER DESIGNATIONS

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1-AED9201B = Basic device AED9201B

1-AD103C = Amplifier PCB with dosing function AD103C (see separate Data Sheet)

Komplette Dokumentation, sowie Parametrier- und Visualisierungssoftware PanelX als kostenloser Download auf der AED Website: <https://www.hbm.com/en/2561/aed-digital-transducer-electronics/>

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