

DATA SHEET

AED9301B

Basic device for AD103C

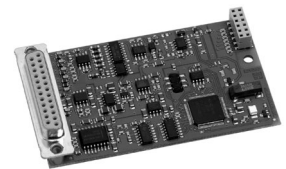
SPECIAL FEATURES

- DP V1 Profibus interface
- For cyclic and acyclic operation
- 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

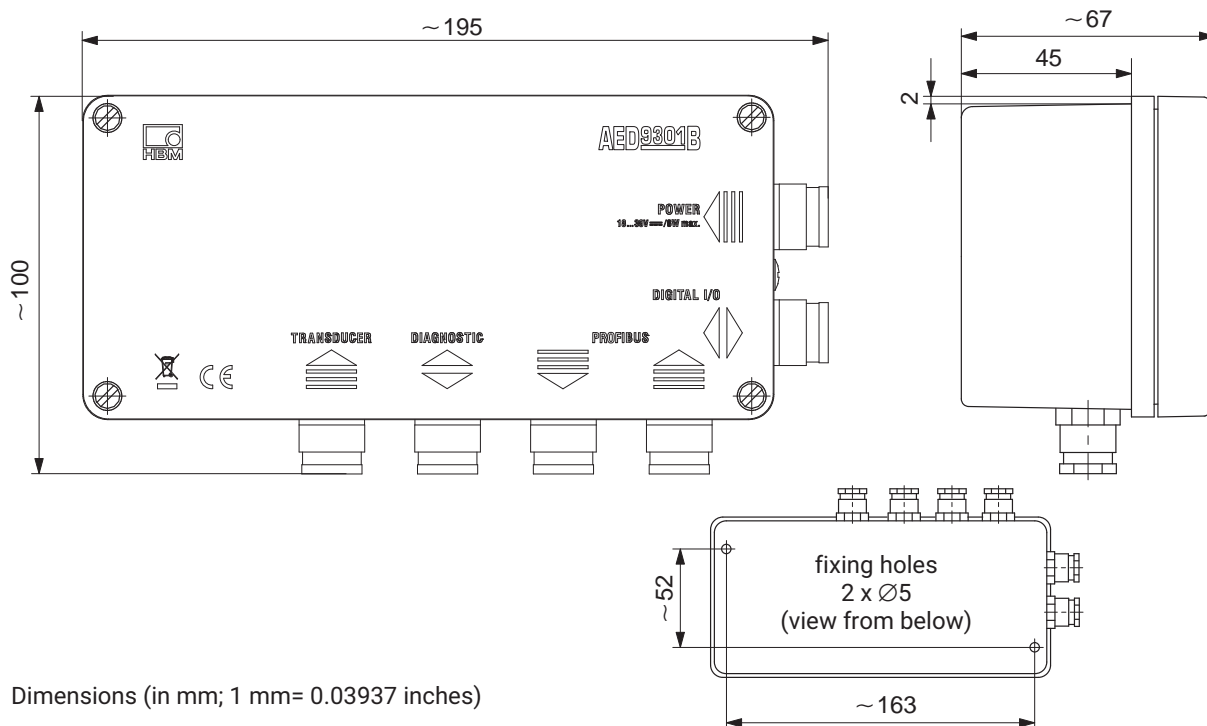
AED9301B
Basic device



AD103C
Amplifier board



DIMENSIONS



Dimensions (in mm; 1 mm= 0.03937 inches)

SPECIFICATIONS

Type		AED9301B
Measuring amplifier		AD103C
Measuring signal input	mV/V	±3, nominal ±2
Transducer connection		
Strain gage transducer (full bridge)	Ω	≥80...4000
Transducer connection		6-wire circuit
Transducer cable length	m	≤100
Bridge excitation voltage	V _{DC}	5
Profibus DP		
Protocol		Profibus-DP Slave, according to DIN 19245-3
Bit rate, max.	Mbit/s	12
Subscriber adress, can be set by rotary switch		3...99
Interface cable length Profibus	m	1200 (at 9.6 / 19.2 / 93.75 kbit/s) 1000 (at 187.5 kbit/s) 400 (at 500 kbit/s) 200 (at 1.5 Mbit/s) 100 (at 12 Mbit/s)
Diagnostics bus		
Protocol		ASCII/Binary
Baud rate	kbit/s	38.4
Node address		0 ... 89
Length of Interface cable, max.	m	1000
Control inputs (electrically isolated)		
Number		2
Input voltage range, LOW	V	0...5
Input voltage range, HIGH	V	10...30
Input current, typ., HIGH-level = 24V	mA	12
Insulation voltage, typ.	V _{DC}	500
Control outputs¹⁾ (electrically isolated)		
Number		Supply from supply voltage 4
Max. output current I _{max} per output	A	0.5
Short circuit current, typ., U _b =24 V; R _L <0.1 Ω	A	0.8
Short circuit duration		Unlimited
Input current at LOW level	mA	<2
Output voltage HIGH level	V	>15 at I _{max}
Insulation voltage, typ.	V _{DC}	500
Supply		
Supply voltage	V _{DC}	18...30
Current consumption (withload cell, RB = 80 Ω, and addit. output current of control output I _{out} 1...4)	mA	≤250 ²⁾
Temperature range		
Nominal temperature	°C [°F]	-10...+40 [+14...+104]
Operating temperature		-20...+60 [-4...+140]
Storage temperature		-25...+85 [-13...+185]
Dimensions	mm	195 x 100 x 70
Weight, approx.	g	925 (without AD10x)
Degree of protection according to EN 60529 (IEC 529)		IP65

1) Depending on the external supply voltage

2) Current consumption = at 18 V-Supply ≤ 250 mA+I_{OUT} 1...4
at 24 V-Supply ≤ 200 mA+I_{OUT} 1...4
at 30 V-Supply ≤ 170 mA+I_{OUT} 1...4

ORDER DESIGNATIONS

1-AED9301B = Basic device **AED9301B**

1-AD103C = Amplifier PCB with dosing function **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/>

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