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Data Sheet

AED9301B

Basic device for AD103C

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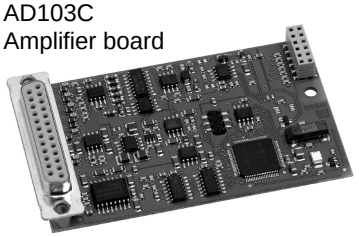
Basic device

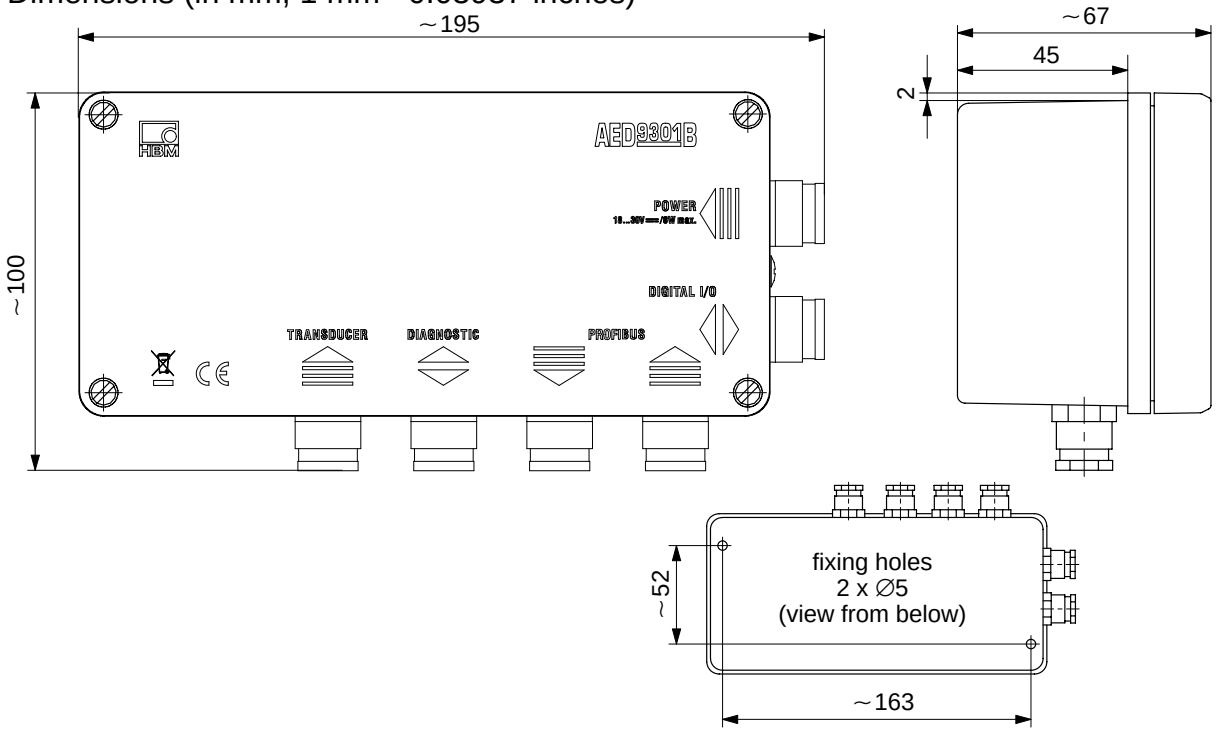
AD103C
Amplifier board



Special features

- **DP V1 Profibus interface**
- **For cyclic und 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**

Dimensions (in mm; 1 mm= 0.03937 inches)



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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
Subcriber 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 outputs [1] (electrically isolated):		Supply from supply voltage
Number		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+IOUT 1...4
at 24 V−Supply ≤ 200 mA+IOUT 1...4
at 30 V−Supply ≤ 170 mA+IOUT 1...4

Order designations

1-AED9301B = Basic device **AED9301B**
1-AD103C = Amplifier PCB with dosing function **AD103C** (see separate Data Sheet)

Accessories, to be ordered separately

Legal-for-trade digital scale display (see separate Data Sheet)
1-DWS2103

Documentation
1-FIT-AED-DOC (CD−ROM with operating manual and AED_Panel32 panel program)

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