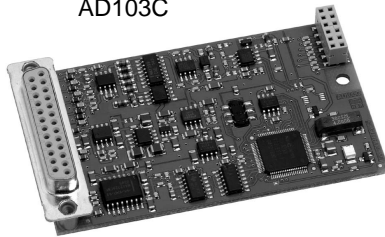


Basic device  
AED9301A



Amplifier board  
AD103C



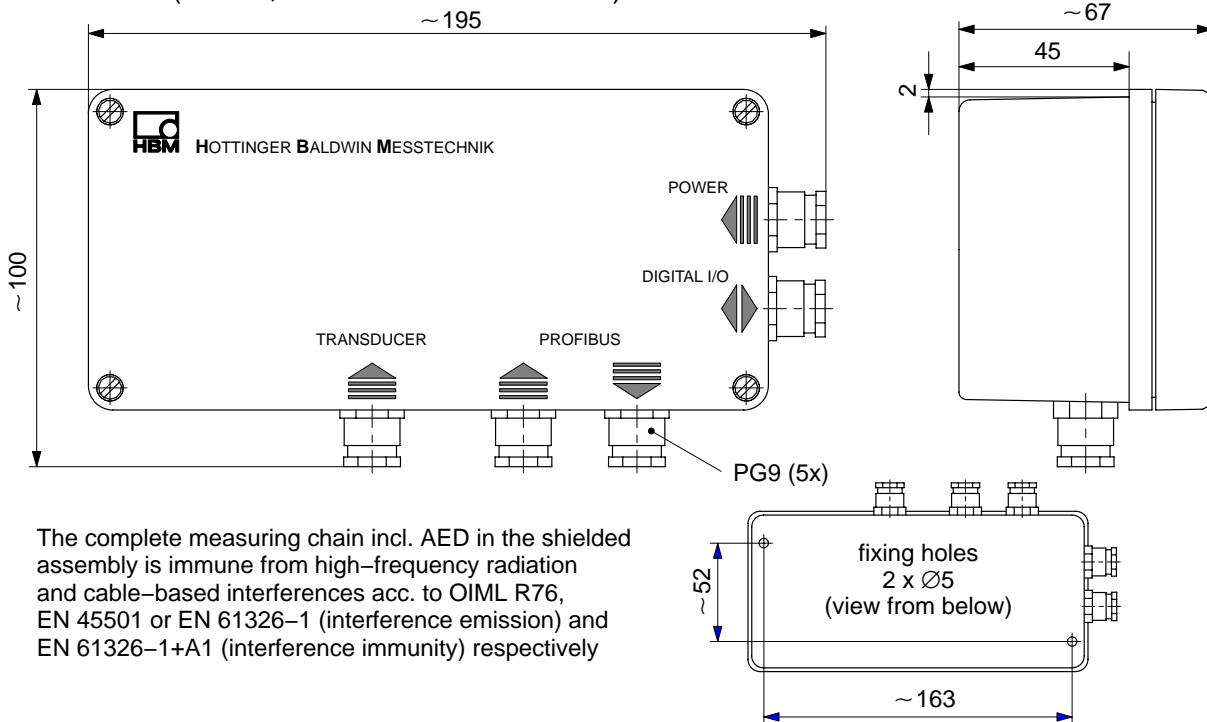
# AED9301A

Basic device for  
AD103C

## 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 in preparation
- 18...30 V Operating voltage range
- Degree of protection IP65
- EMC protection

Dimensions (in mm; 1 mm= 0.03937 inches)



## Specifications

Type		AED9301A
<b>Measuring amplifier</b>		<b>AD103C</b>
<b>Measuring signal input</b>		±3, nominal ±2
<b>Transducer connection:</b>		
Strain gage transducer (full bridge)	Ω	≥80...4000 <sup>1)</sup>
Transducer connection		6-wire circuit
Transducer cable length	m	≤100
Bridge excitation voltage	V <sub>DC</sub>	5
<b>Profibus DP:</b>		
Protocol		Profibus-DP Slave, according to DIN 19245-3
Baud rate, max.	Mbaud	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)
<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 = 24V	mA	12
Insulation voltage, typ.	V <sub>DC</sub>	500
<b>Control outputs *) (electrically isolated):</b>		Supply from operating voltage
Number		4
Max. output current I <sub>max</sub> per output	A	0.5
Short circuit current, typ., U <sub>b</sub> =24 V; R <sub>L</sub> <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 <sub>max</sub>
Insulation voltage, typ.	V <sub>DC</sub>	500
<b>Supply:</b>		
Operating voltage	V <sub>DC</sub>	18...30
Current consumption (withload cell, R <sub>B</sub> = 80 Ω, and addit. output current of control output I <sub>out</sub> 1...4)	mA	≤250 <sup>2)</sup>
<b>Temperature range:</b>		
<b>Nominal temperature</b>		-10...+40 [+14...+104]
<b>Operating temperature</b>	°C [°F]	-20...+60 [-4...+140]
<b>Storage temperature</b>		-25...+85 [-13...185]
<b>Dimensions</b>		mm
		195 x 100 x 70
<b>Weight</b>		g
		~ 925
<b>Degree of protection according to DIN 40050 (IEC 529)</b>		
		IP65

1) Depending on the external operating voltage supply

2) Current consumption =

at 8 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-AED9301A** = Basic device **AED9301A**

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

## Accessories, to be ordered separately

**1-FIT-AED-DOC** = Documentation (CD-ROM with operating manual and AED\_Profibus panel program)

Modifications reserved.

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