

DATA SHEET

AED9501A

Basic device for AD103C

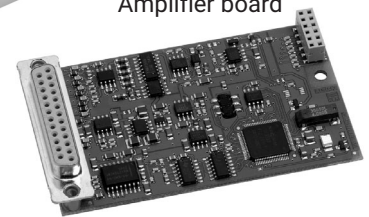
SPECIAL FEATURES

- CANOpen and DeviceNet interfaces
- For cyclic und acyclic operation
- Trigger input
- Test report for 10 000 digits class III available
- 10...30 V Supply voltage range
- Degree of protection IP65
- EMC protection
- Diagnostics bus for analyzing and additional indication

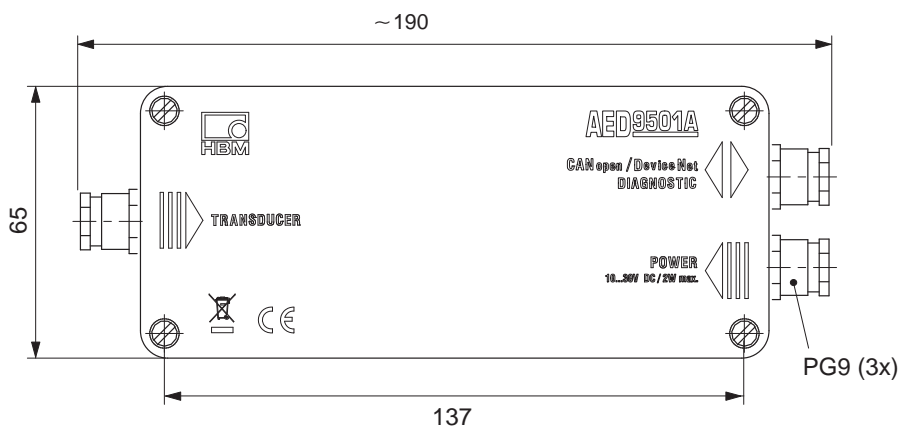
AED9501A
Basic device



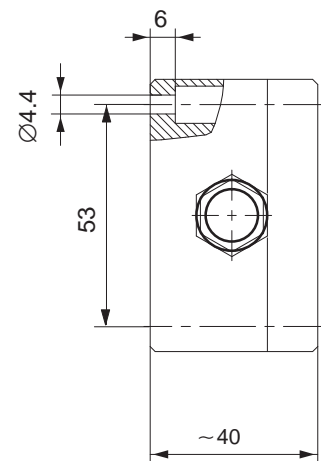
AD103C
Amplifier board



DIMENSIONS



Dimensions (in mm; 1 mm= 0.03937 inches)



SPECIFICATIONS

Type		AED9501A
Amplifier board		AD103C
Measurement signal input	mV/V	±3, nominal ±2
Strain gage transducer (1...4 full bridge, each 350 Ω), R _B	Ω	≥80...4000
Transducer connection		6 wire circuit
Length of transducer cable	m	≤ 100
Bridge excitation voltage	V _{DC}	5
CANOpen		
Protocol		CANOpen
Bit rate, max.	kbit/s	10...1000
Node address		1...127
Length of interface cable	m	5000...25
DeviceNet bus		
Protocol		DeviceNet
Bit rate, max.	kbit/s	125...500
Node address		1...63
Length of interface cable	m	1000...100
Diagnostics bus		
Protocol		ASCII/Binary
Baud rate	kbit/s	38.4
Node address		0...89
Length of interface cable, max.	m	1000
Trigger input		
Input voltage range, LOW	V	0...1
Input voltage range, HIGH	V	2...30
Input current with High level = 30 V	mA	< 3
Power supply		
Supply voltage (DC)	V	10...30
Current consumption (without load cell)	mA	≤ 120 ¹⁾
Temperature range		
Nominal temperature range	°C [°F]	-10...+40 [+14...+104]
Operating temperature range	°C [°F]	-20...+60 [-4...+140]
Storage temperature range	°C [°F]	-25...+85 [-13...+185]
Miscellaneous		
Dimensions (L x W x H)	mm	190 x 65 x 40
Weight, approx.	g	440 (without AD10x)
Degree of protection to EN 60529 (IEC529)		IP65

1) Current consumption = $\leq 120\text{mA} + \frac{\text{Excitation voltage } U_B = 5\text{V}}{\text{Bridge resistance } R_B}$

ORDER DESIGNATIONS

1-AED9501A = Basic device **AED9501A**

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

Accessories, to be ordered separately

1-FIT-AED-KIT (Starter kit for CANOpen and DeviceNet)

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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