DATA SHEET

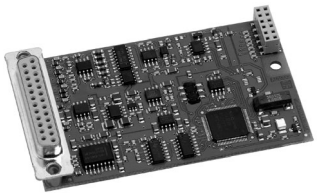
# AED9401A
# Basic device for AD103C

## SPECIAL FEATURES

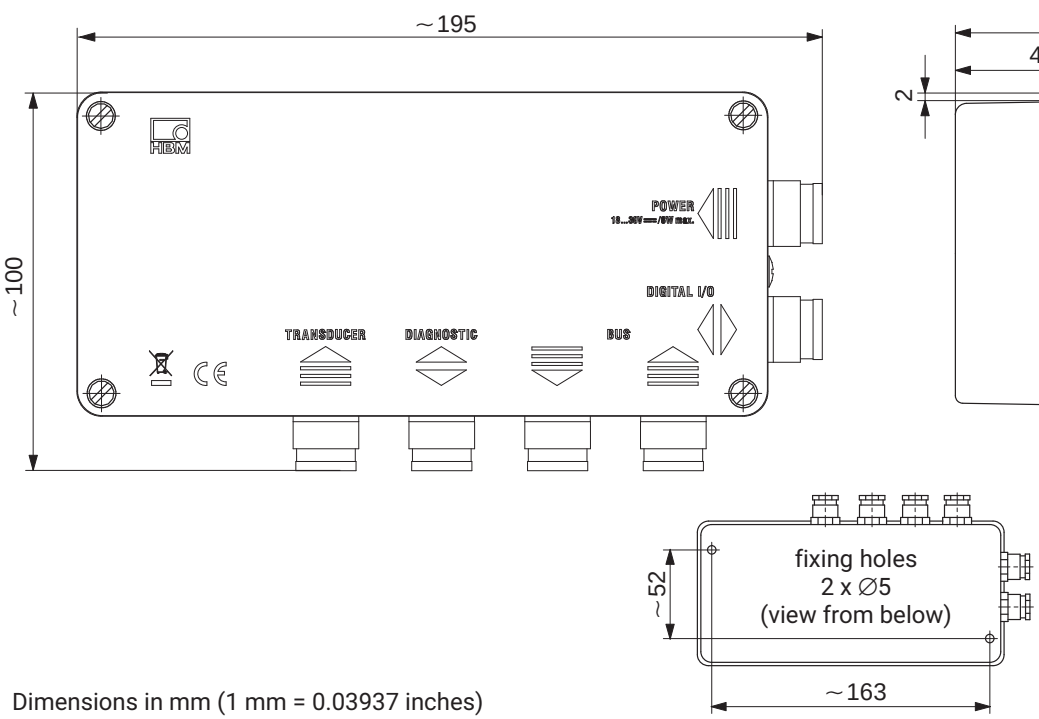
- CANOpen and DeviceNet interfaces
- For cyclic and acyclic operation
- Two control inputs and four limit value outputs
- Six control inputs / outputs (dosing functions)
- Test report for 10 000 digits class III available
- 18...30 V supply voltage range
- Degree of protection IP65
- EMC protection
- Diagnostics bus for analyzing and additional indication

AED9401A
Basic device


AD103C
Amplifier board



## DIMENSIONS




Dimensions in mm (1 mm = 0.03937 inches)

## SPECIFICATIONS

| **Type** | | **AED9401A** |
|---|---|---|
| **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 |
| **CAN-Bus** | | |
| 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 |
| **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 |
| **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 (with load cell, RB = 80 Ω and addition. output current of the control output $I_{out}$ 1...4) | mA | ≤250 [2] |
| **Temperature range** | | |
| Nominal temperature | °C [°F] | -10...+40 [+14...+104] |
| Operating temperature | °C [°F] | -20...+60 [-4...+140] |
| Storage temperature | °C [°F] | -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-AED9401A** = Basic device **AED9401A**
**1-AD103C** = Amplifier PCB with dosing function **AD103C** (see separate Data Sheet)

**Starter Kit**

**1-FIT-AED-KIT** (or 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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