

Data Sheet

# Display Type **MBD 1000**

For pressure/temperature transmitters with output 4-20 mA



A plug-in display that can be universally applied to all MBS, AKS and MBT transmitters with a 4–20 mA output and a plug connection according to EN 175301-803-A.

The MBD 1000 is simply inserted between the transmitter and its connector by means of the integral DIN cubic plug adaptor.

Measurement range, decimal point and filtering can be comfortably adjusted with 3 push-button keys after removal of the front cover.

The display provides a simple and effective solution for local monitoring of pressure and temperature.

#### Features

- Polarity protected
- No auxiliary energy source required
- Can be tilted to any position
- High accuracy and minimal temperature drift
- Easy installation
- Displaying transmitter output
- CE approved

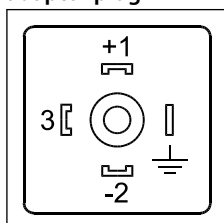
## Product specification

### Technical specifications

**Table 1: Performance (EN 60770)**

Input signal	4–20 mA (2-wire)
Max. allowed input current	40 mA
Reverse voltage protection	Polarized installation
Voltage drop	Approx. 3 V
Display	10 mm high LCD-display
Display range	Start and end value freely programmable
Maximum display value	9999
Minimum display value	-1999
Decimal point	Any position
Measuring accuracy	0.2% ± 1 digit
Temperature drift	100 ppm / °C
Measuring interval	Approx. 3 measurements / sec.
Filtering	Selectable in 3 stages
Nominal temperature	25 °C
Ambient temperature	0 – 50 °C
Humidity	0 – 80% RH (non condensing)
Electromagnetic compatibility additional error	According to EN61000-6-2 and EN61000-6-3 < 1%
Housing Dimensions	ABS. Front screen made of polycarbonate 48.5 x 48.5 x 35.5 mm (L x W x D)
Electrical connection	EN 175301-803-A
IP rating	IP65

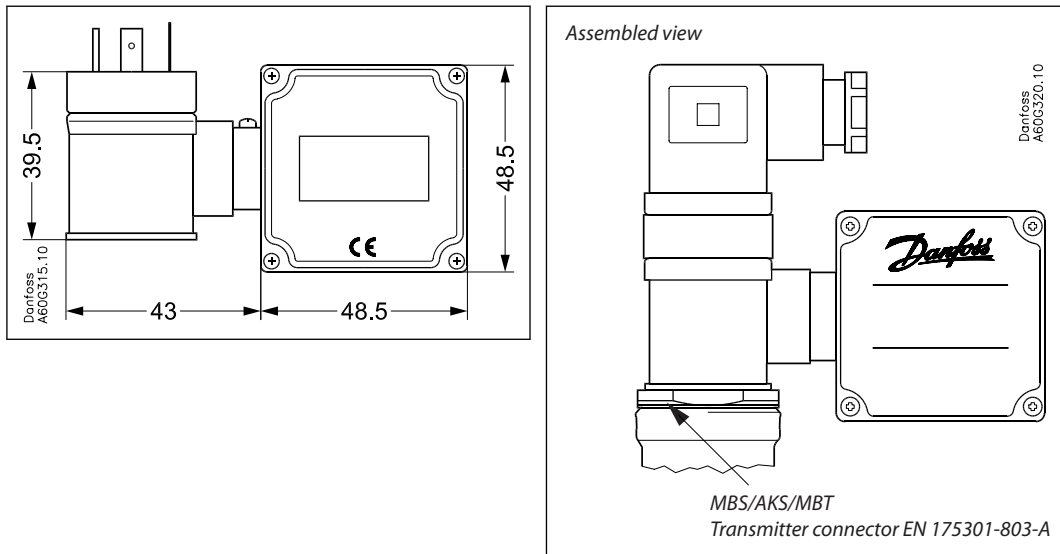
### Electrical connection

**Figure 1: 4-pin adaptor plug**


Pin assignment of 4-pin adaptor plug according to EN 175301-803-A

Pin	
1	Supply +
2	Supply –
3	NC
⏏	Connection to transmitter housing

## Dimensions



## Ordering

Type	Code no.
MBD 1000	<b>060G2850</b>

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**Table 2: Certificates and declarations**

File name	Document type	Document topic	Approval authority
EAC RU Д-ДК.А187.В.00022_19	EAC Declaration	EMC	EAC
063R3159.01	EU Declaration	EMCD/ROHS	Danfoss
UA.10146.D.00070-19	UA Declaration	EMCD/LVD	LLC CDC EURO TYSK
060R3161.00	Manufacturers Declaration	China RoHS	Danfoss

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