

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

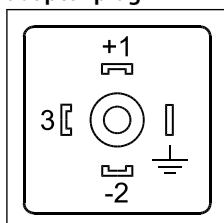
Product specification

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

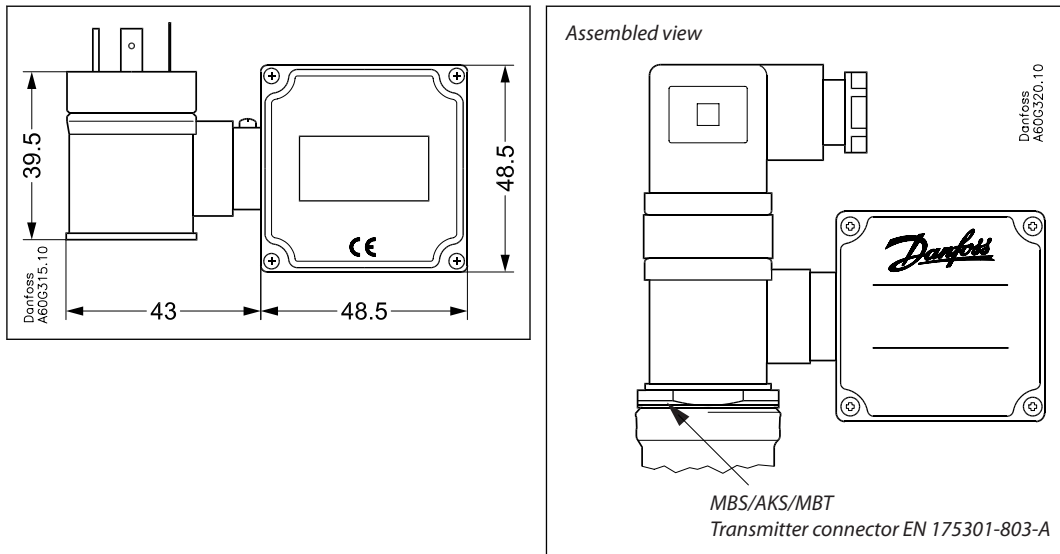
Electrical connection

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	060G2850

Certificates, declarations, and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

Some approvals may change over time. You can check the most current status at danfoss.com or contact your local Danfoss representative if you have any questions.

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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