**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
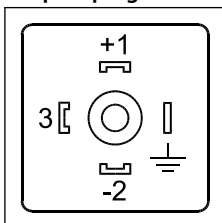- Displaying transmitter output
- CE approved

## Product specification

## Technical specifications

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

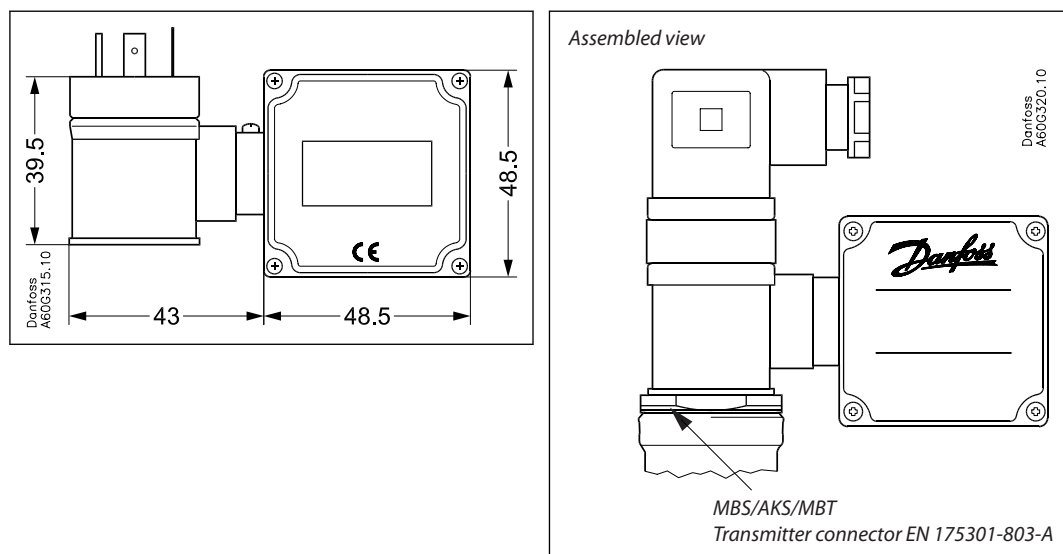| | |
|---|---|
| Input signal | 4–20 mA (2-wire) |
| Max. allowed input current | 40 mA |
| Reverse voltage protection | Polarized installation |
| Voltage drop | Approx. 3 V |
| Display | 10 mm high LCD-display |
| Display range | Start and end value freely programmable |
| Maximum display value | 9999 |
| Minimum display valaue | -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



Assembled view

*MBS/AKS/MBT*
*Transmitter connector EN 175301-803-A*

## 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-DK.АЛ87.В.00022_19 | EAC Declaration | EMC | EAC |
| 063R3159.01 | EU Declaration | EMCD/ROHS | Danfoss |
| UA.1O146.D.00070-19 | UA Declaration | EMCD/LVD | LLC CDC EURO TYSK |
| 060R3161.00 | Manufacturers Declaration | China RoHS | Danfoss |

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