

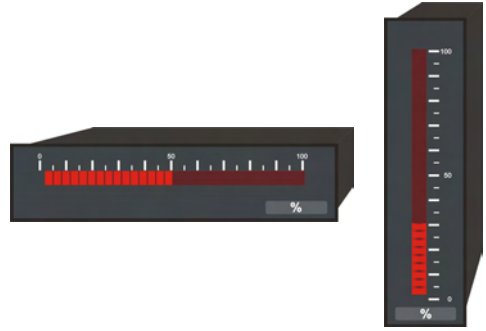
Processor-based bargraph vertical or horizontal

MB1

- red display, optionally green or orange
- 30 point bargraph display
- adjustable bar- or dot operation
- brightness control
- protection class IP65
- plug-in terminal

Bargraph

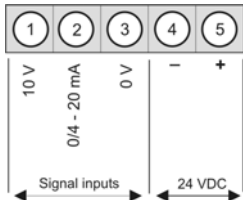
- Direct current
- Direct voltage



ORDERING NUMBER
(without options)

EUR

- **Direct current, direct voltage**



Supply 24 VDC

horizontal

vertical

MB1-33RHO.0001.770AD 145,00

MB1-33RVO.0001.770AD 145,00

Product key options:

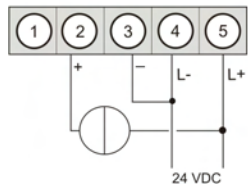
| | | | | | | | | | | | | | | | | | |
|---|---|----|---|---|---|---|---|----|---|---|---|----|---|---|---|---|---|
| M | B | 1- | 3 | 3 | R | 3 | H | O. | 0 | 0 | 0 | 1. | 7 | 7 | 0 | A | D |
| M | B | 1- | 3 | 3 | R | 3 | V | O. | 0 | 0 | 0 | 1. | 7 | 7 | 0 | A | D |

EUR

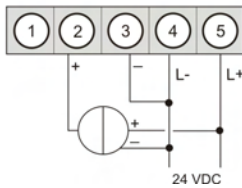
| | | |
|---|-------------------------------|-----------|
| G | Green bargraph display | 12,80 |
| Y | Orange bargraph display | 12,80 |
| X | Multi colour bargraph display | on demand |

Connection pictures

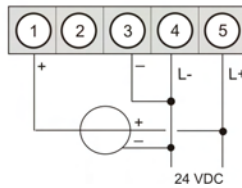
2-wire: 4-20 mA



3-wire: 0/4-20 mA



3-wire: 0-10 V



Technical data

| | | | | |
|---------------------------|---|--|--------------|----------------|
| Dimensions | Housing | B96 x H24 x D60 mm (D=69 mm incl. plug-in terminal) | | |
| | Panel cut-out | 92.0 ^{+0.8} x 22.0 ^{+0.3} mm | | |
| | Fixing | screw elements for insulation thickness up to 3 mm | | |
| | Housing material | PC Polycarbonate; colour: black UL94V-0 | | |
| | Sealing material | EPDM, 65 Shore | | |
| Display | Protection class | front IP65 standard frontside IP00 | | |
| | Weight | approx. 0.1 kg | | |
| | Connection | plug-in terminal; line cross section up to 2.5 mm ² | | |
| | Bargraph | 30 points | | |
| | Bargraph segment | 4 mm | | |
| Measuring input | Segment colour | red, optionally green or orange | | |
| | Display range | 30 point bargraph display | | |
| | Overflow | flashing of the two bargraph elements at the top | | |
| | Underflow | flashing of the two bargraph elements at the bottom | | |
| | Display time/ Measuring time | approx. 100 ms | | |
| | Span | -12...12 V | / | -22 mA...24 mA |
| | Measuring range | 0...10 V | / | 0/4...20 mA |
| Input resistance | Ri at ~200 kΩ | / | Ri at ~100 Ω | |
| Measuring fault | 0.5% of final value, +/-1 Digit / 0.5% of final value, +/-1 Digit | | | |
| Temperature drift | 100 ppm/K | | | |
| Measuring time | approx. 100 ms | | | |
| Measuring principle | U/F-converter | | | |
| Resolution | approx. 14 Bit at 0.1 s measuring time | | | |
| Power pack | Supply | 24 VDC, +/-10 %, 2 A | | |
| Memory | EEPROM | | | |
| | Data life | ≥ 100 years | | |
| Ambient conditions | Working temperature | 0 to + 60°C | | |
| | Storing temperature | -20 to + 80°C | | |
| | Climatic density | relative humidity 0-85% on years average without dew | | |

CE-sign Conformity to directive 2004/108/EG

EMV EN 61326

EMV
Safety standard EN 61010

Housing:

