

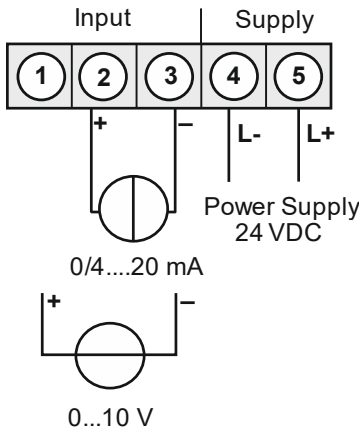


**MB1 – bargraph display in 48x24 mm (BxH)
Direct voltage / direct current signals 0-10 VDC, 0/4-20 mA
Switchable bargraph colours:
Standard red/green, optionally green/orange or blue/red**

- 10 point bargraph display – NEW: colour: red or green, selectable via decode switch
- minimum installation depth: 30 mm without plug-in screw terminal
- adjustable via HEX switch and push-button
- pre-adjusted input for standard signals 0-10 V and 0/4-20 mA
- free adjustment on the input signal
- 8 different display types adjustable as bar, dot/point or curtain
- free choice of direction and display of centre (e.g. bars starting from the middle of display)
- control of bightness level in stages
- protection class IP65
- plug-in terminal
- optional: switchable colours green/orange, blue/red

ORDERING NUMBER
(without options)

• **Direct current, direct voltage**



Supply 24 VDC

horizontal

MB1-71RHO.0001.770xD

vertical

MB1-71RVO.0001.770xD

• **Product key options**

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

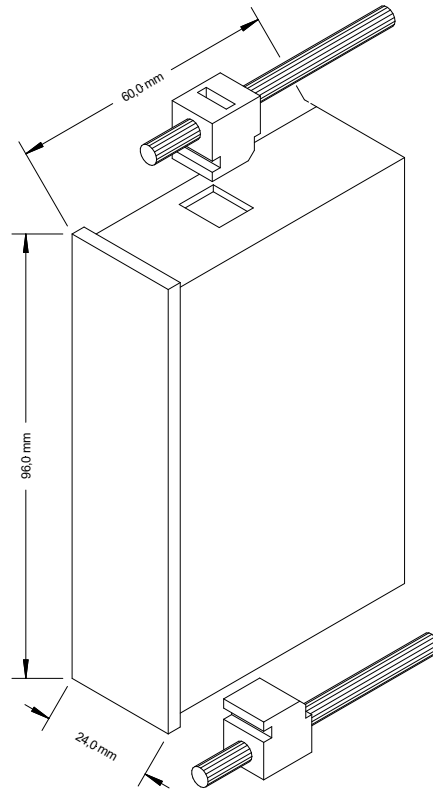
| | |
|---|-------------------------------|
| B | Blue/Red bargraph display |
| Y | Green/Orange bargraph display |

Please state physical unit in order, e.g. %.

• **Technical data**

| | | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions | Housing Panel cut-out Fixing Housing material Sealing material Protection class Weight Connection | B482 x H24 x D30 mm (D=55 mm incl. plug-in terminal) xx.0 ^{+0.8} x 22.0 ^{+0.3} mm screw elements for insulation thickness up to 3 mm PC Polycarbonate; colour: black UL94V-0 EPDM, 65 Shore front IP65 standard, rear side IP00 approx. 100 g plug-in terminal; line cross section up to 2.5 mm ² |
| Display | Bargraph Bargraph segment Segment colour Display range Overflow Underflow Display time/Meas. time | 10 points 4 mm red/green selectable, optionally green/orange, blue/red 10 point bargraph display all segments are flashing, except the last three segments flashing of the first three bargraph elements approx. 100 ms |
| Measuring input | Span Measuring range Input resistance Measuring fault Temperature drift Measuring time Measuring principle Resolution | -12...12 V / -22 mA...24 mA 0...10 V / 0/4...20 mA Ri at ~200 kΩ / Ri at ~100 Ω 0.5% of final value, ±1 Digit / 0.5% of final value, ±1 Digit 100 ppm/K approx. 100 ms U/F-converter approx. 14 Bit at 0.1 s measuring time |
| Power pack | Supply | 24 VDC, ±10% (max. 2 VA) |
| Memory | EEPROM | Data life ≥ 100 years at 25°C |
| Ambient conditions | Working temperature Storing temperature Climatic density | 0 to +60°C -20 to +80°C relative humidity 0-85% on years average without dew |
| CE-sign | Conformity to directive 2014/30/EU | |
| EMV | EN 61326, EN 55011 | |
| Safety standard | According to low voltage directive 2014/35/EU, EN 61010, EN 50554-1 | |

Housing:



• Ordering code

| | | M | B | 1- | 7 | 1 | R | H | O. | 0 | 0 | 0 | 1. | 7 | 7 | 0 | x | D | |
|--------------------------------|---|---|---|----|---|---|---|---|----|---|---|---|----|---|---|---|---|---|---------------------------------------|
| Basic type M-Line | | | | | | | | | | | | | | | | | | | Dimension |
| Bargraph display | B | | | | | | | | | | | | | | | | | | D physical unit |
| Installation depth | | | | | | | | | | | | | | | | | | | Version |
| 55 mm (incl. plug-in terminal) | 1 | | | | | | | | | | | | | | | | | | x internal version |
| Housing size | | | | | | | | | | | | | | | | | | | Setpoints |
| B48xH24xD30 mm | 7 | | | | | | | | | | | | | | | | | | 0 no setpoints |
| Resolution | | | | | | | | | | | | | | | | | | | Protection class |
| 10 points | 1 | | | | | | | | | | | | | | | | | | 7 IP65 / plug-in terminal |
| Display colours | | | | | | | | | | | | | | | | | | | Voltage supply |
| Green/Orange | G | | | | | | | | | | | | | | | | | | 7 24 VDC galv. isolated |
| Red/Green | R | | | | | | | | | | | | | | | | | | Measuring input |
| Blue/Red | B | | | | | | | | | | | | | | | | | | 1 Standard signal 0/4-20 mA, 0-10 VDC |
| Adjustment | | | | | | | | | | | | | | | | | | | Analog output |
| Horizontal | H | | | | | | | | | | | | | | | | | | 0 without |
| Vertical | V | | | | | | | | | | | | | | | | | | Sensor supply |
| Digital display | | | | | | | | | | | | | | | | | | | 0 without |
| without | O | | | | | | | | | | | | | | | | | | Interface |
| | | | | | | | | | | | | | | | | | | | 0 without |