

Intelligent measuring point iPBMA IP20

Function

The **intelligent PROFIBUS measuring point** detects logical errors in data communication and disturbances in signal transmission that are signaled by various light-emitting diodes. This simple analysis allows the network operator to detect communication deterioration early and take troubleshooting measures. To get optimal information on the physical transmission quality, the measuring points have to be provided at the two ends of a segment.

For the purpose of detailed analysis of PROFIBUS communication quality an additional sub-D socket is available for the use of appropriate diagnostic tools. For a non-interacting connection of a programming device (laptop / field PG) the use of an active programming cable APKA or APKA II is basically recommended. The **iPBMA** type meets not only the requirements of a non-interacting measuring point and an integrated diagnosis but also fulfils the requirements and the function of an active bus termination.

Bus connection

- Connection according to screw terminal technique
- Shield with strain relief
- 90° cable outlet
- Integrated terminating resistor, switching according to a sliding switch of the connector from outside
- Baud rate: 9,6 kbps to 12 Mbps

Technical data

- Input voltage: 24 VDC (20-28 V, pole-proof)
- Output voltage: 9-pin sub-D: 5 VDC / 200 mA short-circuit proof pin 5 (GND) and 6 (+)
- Current drain: Type 30 mA
- Voltage supply through screw terminals

The connection of functional earth is absolutely necessary for the functioning of the PROFIBUS shield!

General data

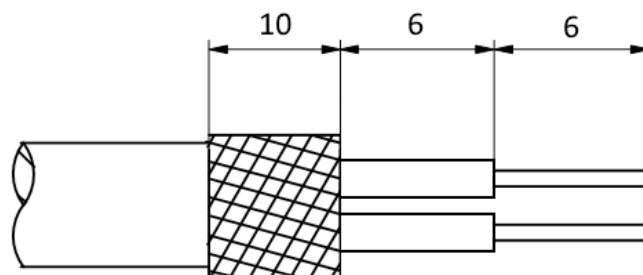
- Fastening: 35 mm DIN rail
- Dimension (H x W x D): 75 x 55 x 42 mm
- Protective system: IP20
- Operation temperature: 0 °C to +70 °C
- Weight: 100 g
- Casing: Aluminum housing with plastic copings



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Designation	Status	Description
Power	ON	Correct voltage supply
	OFF	Voltage supply error
Data	Flashing	Bus communication available
	OFF	No bus communication
Termination	ON	Internal termination active
	Flashing	Termination error
	OFF	Internal termination inactive
Bus Quality	ON	Error-free bus communication
	ON	Low signal level
	ON	Data communication error

Designation Status Description



iPBMA PROFIBUS connection

Ordering details

Art. No.

iPBMA

110080015