Active measuring point PBMS IP64

Function

The measuring and programming interface PBMS for front mounting in the control cabinets and terminal boxes provides for a simple and optimal access to the internal MPI or PROFIBUS interface. The integrated electronic system allows a feedback-free plugging of PROFIBUS analyzers while the system is running. To get an optimal understanding of the physical transfer quality, it is necessary to arrange the measuring points at the two ends of a segment. The PROFIBUS connector located on the rear side (inside the cabinet) meets the requirements and fulfils the function of an active bus termination. The diagnostic tool is connected according to the 9-pin sub-D PG / diagnosis interface at the front ander the cover. Depending on requirements the USB or RJ 45 type can be requested, too. For a feedback-free connection of a programming device (laptop / field PG) to the sub-D socket an active programming cable APKA is basically recommended.

The type PBMS-D (double) has a main socket-outlet next to the measuring socket. The socket is available in different versions depending on the local standard.

Bus connection

The connection to the PROFIBUS is executed through a commercially available PROFIBUS plug including a terminating resistor that can be switched on.

Electrical parameters

- Baud rate: 9,6 kbps to 12 Mbps
- Input voltage: 24 VDC (18 to 30 V, pole-proof)
- Output voltage: 5 VDC / 100 mA; short-circuit proof
  Pin 5 (GND); Pin 6 (+5V)
- Connections fed through screw-type terminals

Electrical parameters - Socket outlet

	D VDE	USA NEMA	F UTE
• Norm:	D VDE	USA NEMA	F UTE
• Rated voltage (max.):	250 V AC	125 V AC	250 V AC
• Frequency:	50 Hz	60 Hz	50 Hz
• Rated current (max.):	16 A	15 A	16 A

- Further on request

Ambient conditions

- Industrial protection: IP64

Design

- Dimensions (H x W x D): PBMS-E 115 x 65 x 38 mm (single)
  PBMS-D 115 x 130 x 78 mm (double)
- Weight: PBMS-E = 340 g
  PBMS-D = 800 g
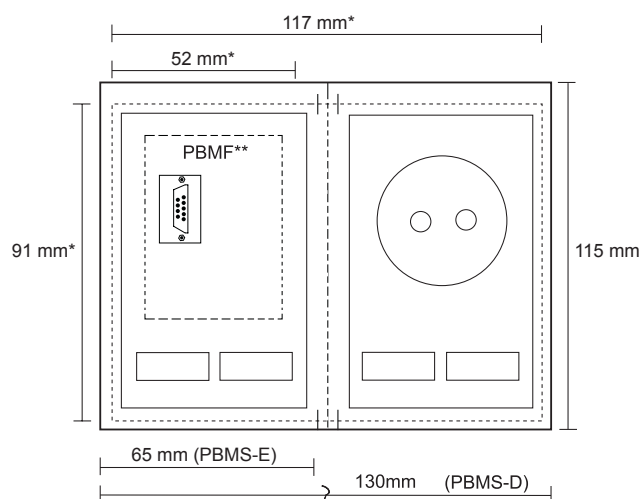- Frame: metal
- Cap: metal, black coat

Ordering details	Art. No.
PBMS-E black (single)	**110080008**
PBMS-D black (double, with german socket)	**110080009**
PBMS-B black international (double)	**110080010**
PBMF PB interface electronics (retrofit kit)	**110080007**

PBMS

*) size matches section
**) electronic PBMF connection back-mounted

Engineering drawing

The local type of socket must be indicated separately in the order (PBMS black „International"):

e.g. (USA) **USA**

(GB) **Great Britain**

(F) **France**

To avoid reflections, we recommend to connect PG / PC devices alway according to active programming cables APKA.

Accessories

Active programming cable APKA	**110040000**
Active programming cable APKA II	**110040001**

InduSol America, LLC • 980 Birmingham Rd. Ste 721 • Alpharetta, GA 30004, USA • +1 (678) 880-6910
info@indusolamerica.com • ventas@indusolamerica.com • www.indusolamerica.com

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