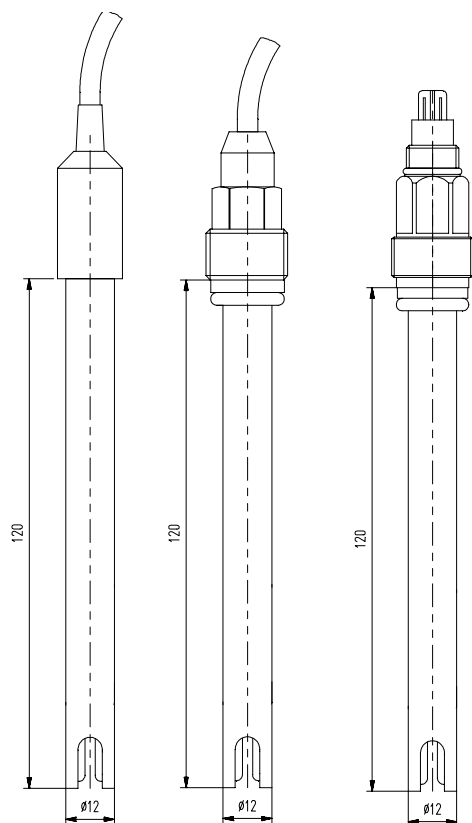


pH/Redox/Temperature Combination Electrode EGA/MC 142

12/04



EGA/MC 142 EGA/MC 142 K/PG EGA/MC 142 SMEK

Dimensions in mm

This pH combination electrode with integrated temperature sensor, gel electrolyte and a metal electrode used for redox (ORP) measurement or as solution ground features low maintenance, excellent measurement accuracy and rugged design, even in harsh chemical applications, industrial water treatment, biological systems and aquariums technique. The integrated temperature sensor (standard Pt 1000) secures simultaneous temperature measurement and automatic temperature compensation. In addition to the model with dismountable SixPlug (SMEK) industrial plug head connection system, models with fixed cable connection and an additional hex nut PG 13.5 are available too.

Plug head and cable connections:

EGA/MC 142 SMEK: Multipin PG 13.5 threaded SixPlug plug head; a connection cable K 19 is required
EGA/MC 142 K/PG: fixed cable 5 m without connector, electrode stem equipped with hex nut PG 13.5
EGA/MC 142 T: fixed cable 2 m without connector
EGA/MC 142 K: fixed cable 5 m without connector
EGA/MC 142 K/PI: 5 m fixed cable without connector, equipped with adapter 2 x NPT 3/4" thread (max. 65 °C)

Specifications

Plastic stem	Ø 12 mm, black; optional with hex nut PG 13.5 for easy mounting
Stem length	120 mm (other lengths upon request)
Cable connection	Multipin PG 13.5 threaded SixPlug (SMEK) plug head; screened 6 wires cable (1 low-noise coax, 4 strands) Ø about 7 mm; max. 10 m
pH range	pH 0 ... 14 (pH 0 and pH 14 within a short operation time)
Temperature range	- 5 ... 80 °C
Temperature sensor	integrated Pt 1000 platinum resistor in accordance with DIN IEC 751 class A (special version with Pt 100)
Pressure range	mediums pressure max. 6 bar; depending from mounting conditions
Membrane shape	cylinder
Membrane resistance	≤ 250 MΩ (25 °C)
Metal electrode	platinum disc or pin
Reference system	Ag/AgCl cartridge
Electrolyte	gel-filled (non-refillable), about 3 M KCl
Diaphragm	2 ceramic frits
Isopotential point	pH 7 ± 0.35 (at time of delivery at 25 °C)
Slope	≥ 95 % of the theoretical value (at time of delivery)
Measuring position	vertically or laterally up to 30° from vertical
Storage	within protective cap filled with 3 M KCl
Sign	neutral or custom specific label
Delivery	with quality certificate and short operating instruction

Sensortechnik Meinsberg GmbH

Quality System certified to DIN EN ISO 9001

Kurt-Schwabe-Straße 6

D-04720 Ziegra-Knobelsdorf /GERMANY

Internet: www.meinsberg.de

Tel. +49 34327 623-0

Fax +49 34327 623-79

