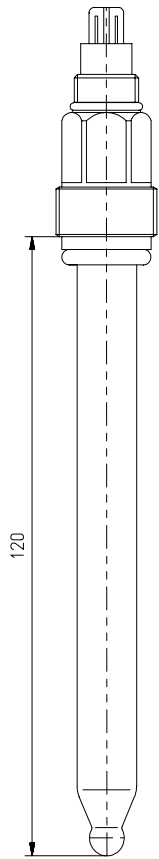


pH Combination Electrode EGA 146

06/04



EGA 146 SMEK
Dimensions: mm

This nearly maintenance free and extremely rugged pH combination electrode with non-refillable gel electrolyte and glass body is the ideal choice for difficult applications in abrasive mediums or strong mechanical demands i.e. for water quality monitoring in wells, groundwater, industrial wastewater, natural water environments and in agriculture. An electrode EGA 146 with integrated platinum resistance Pt 100 or Pt 1000 features simultaneous measurement of pH and temperature and automatic temperature compensation of the pH signal.

Different versions with fixed cable, dismountable PG 13.5 threaded plug head cable connection S7-system and multi pin PG 13.5 threaded SixPlug plug head enable compatibility with nearly all types of on-line pH instrumentations world-wide.

Models:

EGA 146 I:	PG 13.5 threaded plug head coaxial S7 system (a connection cable K 43, K 50 or K 51 is required); without integrated temperature sensor
EGA 146 T:	fixed coaxial cable Ø about 5 mm, length 2 m, without meter plug; without integrated temperature sensor
EGA 146 K:	fixed coaxial cable Ø about 5 mm, length 5 m, without meter plug; without integrated temperature sensor
EGA 146 K/PG:	fixed coaxial cable Ø about 5 mm, length 5 m, without meter plug; additionally electrode stem equipped with hex nut PG 13.5; without integrated temperature sensor
EGA 146/Pt 100 SMEK:	multi pin PG 13.5 threaded SixPlug plug head (a connection cable is required); integrated temperature sensor Pt 100
EGA 146/Pt 1000 SMEK:	multi pin PG 13.5 threaded SixPlug plug head (a connection cable is required); integrated temperature sensor Pt 1000
EGA 146/Pt 100 K/PG:	fixed triaxial cable Ø about 5 mm, length 5 m, without meter plug; electrode stem equipped with hex nut PG 13.5; integrated temperature sensor Pt 100
EGA 146/Pt 1000 K/PG:	fixed triaxial cable Ø about 5 mm, length 5 m, without meter plug; electrode stem equipped with hex nut PG 13.5; integrated temperature sensor Pt 1000

Specifications

Electrode stem	glass Ø 12 mm without refill opening
Immersion length	120 mm (immersion lengths 150 mm, 225 mm and 360 mm on request)
pH range	pH 0 ... 14
Temperature range	- 5 ... 80 °C
Temperature sensor	EGA 146/Pt 1000: integrated Pt 1000 platinum resistor acc. to DIN IEC 751 class A EGA 146/Pt 100: integrated Pt 100 platinum resistor acc. to DIN IEC 751 class A
Membrane shape	special strong reinforced ball membrane
Membrane resistance	ca. 300 MΩ (25 °C)
Reference system	Ag/AgCl
Electrolyte	gel-filled (non-refillable), about 3 M KCl
Diaphragm	2 ceramic diaphragms
Isopotential point	pH = 7 ± 0.3
Pressure	max. 6 bar
Electrical connection	EGA 146 I: PG 13.5 threaded coaxial plug head S7-system EGA 146 T (K): 2 (5) m fixed coaxial cable without connector EGA 146 SMEK: PG 13.5 threaded multi pin plug head SixPlug system
Process connection	sensor shaft equipped with hex nut PG 13.5 or PG 13.5 threaded plug head for direct mounting in housings; installation vertically or laterally up to 30° from vertical

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Quality System certified to DIN EN ISO 9001

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