



EGA 143 SMEK

This pH combination electrode with gel electrolyte (low maintenance), large-sized ring-shaped fixed glass sleeve junction and built-in temperature probe features application under industrial conditions in water technology, electroplating and process chemistry even in heavily polluted mediums. The incorporated temperature probe allows simultaneous measurement of pH and temperature especially for automatically temperature compensated pH measurements.

In addition to the version EGA 143 SMEK with removable multi pin SixPlug plug head connection system, the model EGA 143 VP with the extremely rugged VP plug head (VARIOPIN) connection system and models with fixed cable are available.

Accompanying plug head cable connections:

- K 54/2: Triaxial cable, length 2 m with SixPlug plug head cable socket, without meter plug
- K 19/5: 6 wires measuring cable, length 5 m with SixPlug plug head cable socket, without meter plug
- VP6-ST/5m: 6 wires measuring cable, length 5 m with VP plug head cable socket, without meter plug

## Specifications

<b>Electrode stem</b>	Ø 12 mm without refill opening
<b>Immersion length</b>	120 mm (immersion lengths 150 mm, 225 mm and 360 mm on request)
<b>pH range</b>	pH 0 ... 14
<b>Temperature range</b>	- 5 ... 80 °C
<b>Temperature probe</b>	integrated Pt 1000 platinum resistor in accordance with DIN IEC 751 class A (special version with Pt 100)
<b>Membrane shape</b>	cylinder
<b>Membrane resistance</b>	ca. 250 MΩ (25 °C)
<b>Reference system</b>	Ag/AgCl cartridge
<b>Electrolyte</b>	gel-filled (non-refillable), about 3 M KCl
<b>Diaphragm</b>	ring-shaped glass sleeve junction
<b>Isopotential point</b>	pH = 7 ± 0.3
<b>Pressure</b>	max. 6 bar
<b>Electrical connection</b>	EGA 143 SMEK: PG 13.5 threaded multi pin plug head SixPlug system EGA 143 VP: PG 13.5 threaded multi pin plug head VP system EGA 143 T: 2 m fixed triaxial cable without connector EGA 143 K/PG: 5 m fixed triaxial cable without connector, electrode stem equipped with hex nut PG 13.5
<b>Process connection</b>	sensor shaft 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