



The membrane strengthened pH combination electrode is favoured for piercing measurements in viscous mediums and soil samples. The electrode with refillable electrolyte features a short response time and a long working life. These characteristics result from the regenerative reference system. So it is possible to use the sensors in difficult application fields. The refillable reference system needs refilling of the electrolyte regularly.

In addition to the version with plug head system and separated cable connection, models with fixed cable are available.

Electrode shaft	glass, Ø 12 mm
Immersion length	120 mm
pH range	0...14
Temperature range	-5...80 °C
Membrane shape	conic
Membrane resistance	-
Reference system	Ag/AgCl
Electrolyte	fluid (about 3 M KCl), refillable
Diaphragm	3 ceramic frits
Isopotential point	7.0 ± 0.3
Minimum immersion depth	22 mm
Pressure	pressureless
Electrical connection	<ul style="list-style-type: none"> <li>▪ S7 coaxial lab plug head</li> <li>▪ fixed cable</li> </ul>
Process connection	<ul style="list-style-type: none"> <li>▪ with the relevant configuration thread PG 13.5 at sensor shaft for direct mounting in housings</li> <li>▪ installation vertically or laterally up to 30° from vertical</li> </ul>

- Electrical connections of the sensor:
  - EGA81-L: S7 coaxial lab plug head; separate connection cable is required
  - EGA81-K010-B: 1 m fixed cable, BNC plug
  - EGA81...: standard model EGA81 (plug head; cable length [1 m, 2 m, 5 m, 10 m], special cable length, plug, thread PG 13.5 are available)
  - EGA81 (OEM): customer specially designed models (sensor length, OEM logo, ...)
  
- Accompanying plug head cable connections:
  - K43/2: coaxial cable, length 2 m with S7/S8 socket, without meter plug
  - K50/2: coaxial cable, length 2 m with S7/S8 socket and German DIN plug
  - K51/2: coaxial cable, length 2 m with S7/S8 socket and BNC plug