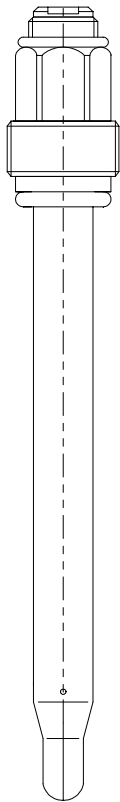
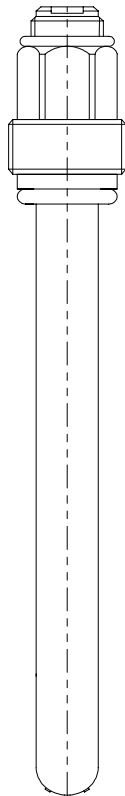


pH Glass Electrode GA 151 and Reference Electrodes SE 20, SE 21, SE 23

06/04



GA 151 I



SE 23 I

The pH Glass Electrode GA 151 is a single measurement electrode acc. to DIN 19263 and is used in connection with a single reference electrode for process pH measurements. The special version GC 151 with special high temperature and alkalinity resistive pH sensitive glass features continuous measurements at higher temperatures and in mediums with extreme pH.

Reference electrodes acc. to DIN 19264 with Ag/AgCl reference system create a nearly constant potential independent from the measured medium. These electrodes are used in connection with pH glass electrodes for industrial pH measurements as well as in connection with ion-selective measuring electrodes. Reference electrodes with different liquid junctions (diaphragms) and electrolytes are available. Electrodes with gel electrolyte feature nearly no maintenance and application without external pressure compensation.

In addition to the models with fixed cable, models with dismountable S7 plug head connection system are available too.

Accompanying plug head cable connections:

- K 43/2: Coaxial measuring cable, length 2 m with plug head S7 cable socket, without meter plug
- K 50/2: Coaxial measuring cable, length 2 m with plug head S7 cable socket and German DIN plug
- K 51/2: Coaxial measuring cable, length 2 m with plug head cable socket and BNC plug

Specifications

pH Glass Electrodes GA 151, GC 151		Reference Electrodes SE 20, SE 21, SE 23	
pH range	pH 0 ... 14	Reference system	Ag/AgCl cartridge
Membrane shape	cylinder	Electrolyte	SE 20, SE 21: liquid (refillable) electrolyte KCl sat. SE 23: gel electrolyte, about 3 M KCl
Membrane resistance	GA 151: about 250 MΩ (25 °C) GC 151: about 500 MΩ (25 °C)		
Isopotential point	pH = 7 ± 0.5 in connection with a Ag/AgCl reference electrode (isopotential point pH = 4.6 upon request)	Diaphragm	SE 20: detachable sleeve SE 21: ceramic SE 23: 3 ceramics
Pressure	max. 6 bar	Pressure	SE 20, SE 21: without SE 23: max. 6 bar

Electrode stem

glass Ø 12 mm

Immersion length

120 mm (other immersion lengths on request)

Temperature range

- 5 ... 80 °C (GC 151 max. 100 °C)

Electrical connection

GA 151 I, SE 23 I: PG 13.5 threaded coaxial plug head S7-system
GA 151 K, SE 20 K, SE 21 K: 5 m fixed coaxial cable without connector

Process connection

PG 13.5 threaded plug head (GA 151 I, SE 23 I) for direct mounting in housings; installation vertically or laterally up to 30° from vertical

Sensortechnik Meinsberg GmbH

Quality System certified to DIN EN ISO 9001

Fabrikstraße 69

D-04720 Ziegra-Knobelsdorf /GERMANY

Internet: www.meinsberg.de

Tel. +49 34327 623-0

Fax +49 34327 623-79

