

Product Information

pH141

Combined pH Electrode



Characteristics

pH combined electrode for use in aggressive media. The electrode is manufactured with a special membrane glass, which allows use with hydrofluoric acid (HF). The special installation length for this electrode is 240 mm.

Technical data

Application range	: 0..14 pH
Scope	: Scrubber Process Chemistry
Working temperature	: -5..+70 °C
Max. pressure	: 6 bar
Diameter	: 12 mm
Installation length	: 220
Min. immersion depth	: 20 mm
Process connection	: PG13,5
Temperature sensor	: without
Electrical connection	: S8
Reference system	: Ag/AgCl
Electrolyte in reference	: Gel
Diaphragm	: 1 x ceramics
Min. conductivity of media	: 150 µS/cm
Installation position	: 90°(upright)
Resistance, typical	: ≤ 300 MΩ@25°C
Zero point	: 0+/-20 mV
Slope	: 57...59 mV@25°C
reaction time	: pH 4..7 < 30 s

Operating limits

Since hydrofluoric acid attacks glass, special requirements are set to the glass recipe of the combined electrode. The service life of single-rod measuring chains is nevertheless strongly dependent on the concentration and pH value of the measuring solution:

pH value @20°C	F-Concentration (ppm)
2	300
3	1000
4	6000
≥5	Without limitation

Ordering code

1.	Type of sensor
	pH Combined pH electrode, potentiometric
2./3./4.	Design
	141 1 x ceramics diaphragm, 3 mol/l KCL-Gel
5.	Shaft length
	240 240 mm
6.	Electrical connection
	S8 S8 Industrial
7.	Options
	00 Without

Accessories

Article No.	Type	Description
103161	S7-02	Connection cable with S7/S8 plug/ pig tail, 2m
103162	S7-05	Connection cable with S7/S8 plug/ pig tail, 5m
103163	S7-10	Connection cable with S7/S8 plug/ pig tail, 5m
various	EA2650	Installation fitting G½A, G¾A, G1A, stainless steel

Scope of delivery

Electrode storage tube, KCL-filled incl. sealing cap

