

SE 546 Memosens pH Sensor

Break-resistant ISFET sensor, digital, with Memosens technology

Broad range of applications due to outstanding features: Body made of FDA-compliant PEEK, double-chamber reference system, short response time, application at low temperatures, sterilizable and autoclavable.

Applications

Hygienic and sterile applications, food and pharmaceutical industry, biotechnology

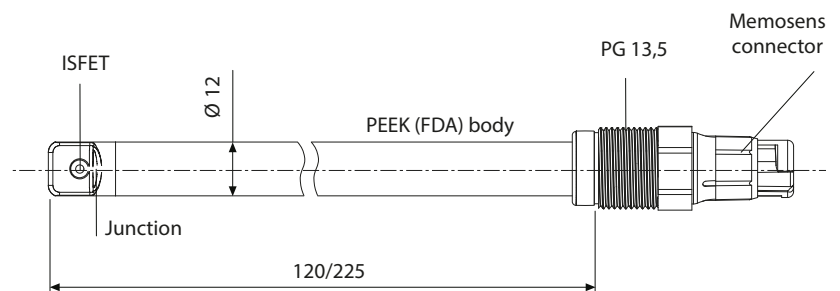
Facts

- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics
- Break resistant
- Short response time
- Double-chamber reference system
- Integrated temperature detector
- Application at low temperatures
- SIP-capable, autoclavable

Specifications

pH:	0 ... 14 (reduced service life with high pH value and at the same time high temperature)
Temperature:	-15 ... 135 °C
Temperature detector	NTC 30 kΩ
Pressure, relative:	0 ... 10 bar (100 °C), 0 ... 3 bar (135 °C)
Sensor material:	ISFET (ion-sensitive field-effect transistor)
Reference system:	Ag/AgCl, gel electrolyte, dual chamber
Wetted material:	PEEK, EPDM, FDA-conforming
Minimum conductivity:	10 μS/cm
Junction:	Ceramic (1 x)
Length:	120 mm / 225 mm
Process connection:	PG 13.5
Sensor connector:	Memosens
ATEX marking:	II 1G Ex ia IIC T3/T4/T6/Ga

Dimension Drawing



All dimensions in mm

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Product Range

Sensor	Length	Order No.
SE 546 pH sensor	120 mm	SE 546X/1-NMSN
	225 mm	SE 546X/2-NMSN

Accessories	Length	Order No.
Memosens cable	3 m	CA/MS-003NAA
	5 m	CA/MS-005NAA
	10 m	CA/MS-010NAA
	20 m ^{*)}	CA/MS-020NAA
Memosens cable, Ex	3 m	CA/MS-003XAA
	5 m	CA/MS-005XAA
	10 m	CA/MS-010XAA
	20 m ^{*)}	CA/MS-020XAA

CaliMat Buffer Solutions (20 °C)	Quantity	Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
	3000 ml	CS-P0400/3000
pH value 4.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/3000
pH value 7.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/3000
pH value 9.00 ± 0.02	250 ml	CS-P1200/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/3000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250

MemoSuite		Bestell-Nr.
Management software for Memosens sensors	Basic version (calibration)	SW-MS1400-B
	Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

^{*)} Greater lengths on request