

## Sensors for pH Measurement

Chem

Energy

Pharm

Food

MEMOSENS



### 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, certified biocompatibility, sterilizable and autoclavable.

#### Applications

Hygienic and sterile applications, food and pharmaceutical industry, biotechnology

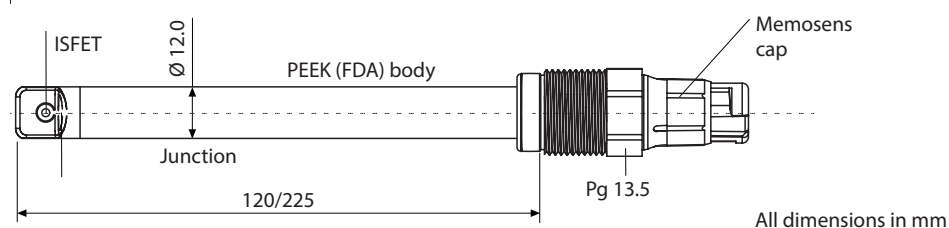
#### Facts

- 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
- Acrylamide-free reference gel electrolyte
- Certified biocompatibility
- Integrated temperature detector
- Application at low temperatures
- CIP- and SIP-capable, autoclavable

#### Specifications

pH:	0 ... 14
Temperature:	-15 ... +110 °C (hazardous-area application) -15 ... +135 °C (safe-area application)
Pressure:	0 ... 10 bars
Sensor material:	ISFET (ion-sensitive field-effect transistor)
Reference system:	Ag/AgCl, gel electrolyte, double chamber
Temperature detector:	NTC 30 kohms
Hygienic design:	EHEDG-validated
Process-wetted material:	PEEK, EPDM, FDA-conforming
Junction:	Ceramic (1 x)
Immersion depth:	120 mm / 225 mm
Process adaptation:	Pg 13.5
Sensor cap:	Memosens
ATEX Certificate:	II 1G Ex ia IIC T3/T4/T6

#### Dimension Drawing



<b>Product Range</b>		<b>Order No.</b>
SE 546 pH sensor	Length 120 mm	SE 546X/1-NMSN
	Length 225 mm	SE 546X/2-NMSN
<b>Accessories</b>		<b>Order No.</b>
Memosens cable	3 m	CA/MS-003NAA
	5 m	CA/MS-005NAA
	10 m	CA/MS-010NAA
	20 m <sup>*)</sup>	CA/MS-020NAA
Memosens cable, Ex	3 m	CA/MS-003XAA
	5 m	CA/MS-005XAA
	10 m	CA/MS-010XAA
	20 m <sup>*)</sup>	CA/MS-020XAA
<b>Buffer Solutions (20 °C)</b>		<b>Order No.</b>
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	250 ml	CS-P0400/250
	1000 ml 3000 ml	CS-P0400/1000 CS-P0400/1000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/1000
pH value 9.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/1000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
<b>MemoSuite</b>		<b>Order No.</b>
Management software for Memosens sensors	Basic version (calibration)	SW-MS1400-B
	Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

<sup>\*)</sup> Greater lengths on request