

## SE547 Memosens pH Sensor

**Break-proof ISFET sensor, digital, with Memosens technology**

The SE547N/\*-NMSN-A2 digital pH sensor is a glass-free pH sensor with a break-proof PEEK body and ISFET chip.

The sensor is CIP/SIP capable and autoclavable as well. It is particularly suitable for hygienic applications in the food and pharmaceutical sectors.

In addition, Memosens technology provides all known advantages when it comes to handling and sensor diagnostics.

- Break-proof sensor body
- Quick response time
- Integrated temperature detector
- CIP/SIP capable, autoclavable
- Perfect galvanic isolation with Memosens technology
- No impact of moisture in the plug-in connection
- Precalibration in the laboratory
- Digital data transmission
- Integrated sensor diagnostics

### Applications

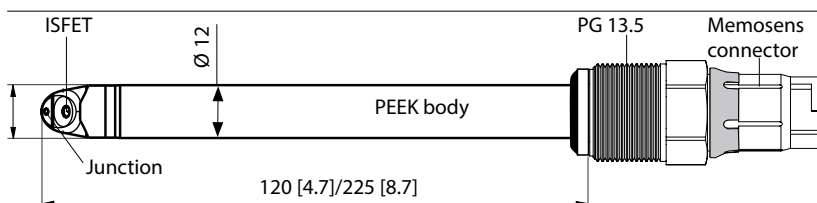
Hygienic and sterile applications, food and pharmaceutical sectors, and biotechnology

### Facts and features

### Specifications

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| pH:                   | 0 ... 14 (limited lifetime with concurrently high pH value and high temperature) |
| Temperature range:    | -15 ... 135 °C (5 ... 275 °F)                                                    |
| Temperature detector: | Pt1000                                                                           |
| Relative pressure:    | -0.2 ... 10 bar (100 °C/212 °F),<br>0 ... 3 bar (135 °C/275 °F)                  |
| Reference system:     | Ag/AgCl                                                                          |
| Electrolyte:          | Gel electrolyte                                                                  |
| Junction:             | Ceramic (1 x)                                                                    |
| Sensor material (pH): | ISFET chip                                                                       |
| Wetted materials:     | PEEK, EPDM (both FDA-compliant)                                                  |
| Length:               | 120 mm/225 mm                                                                    |
| Process connection:   | PG 13.5                                                                          |
| Connector:            | Memosens                                                                         |

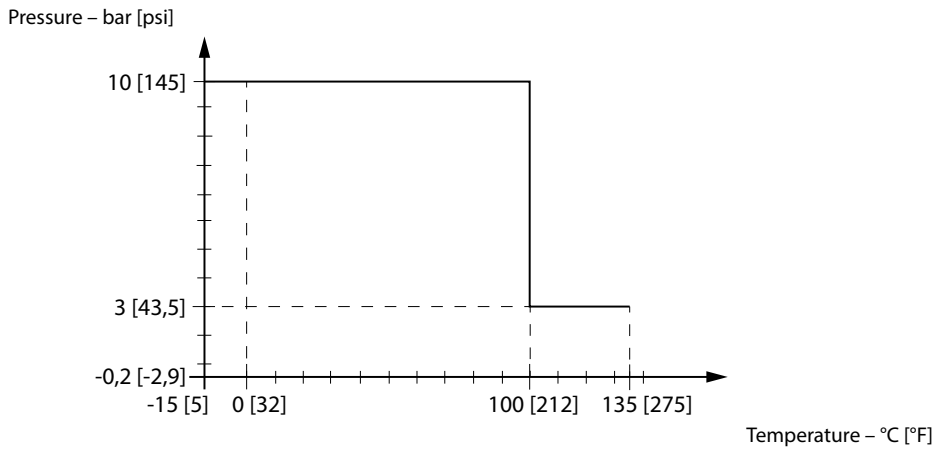
### Dimension drawing



All dimensions in mm [inches]

# SE547 pH Sensor

## Pressure/temperature diagram



## Product line

### Sensor

SE547 pH sensor

### Length

120 mm  
225 mm

### Order no.

SE547N/1-NMSN-A2  
SE547N/2-NMSN-A2

### Accessories

Memosens cable

### Length

3 m  
5 m  
10 m  
20 m\*)

### Order no.

CA/MS-003NAA  
CA/MS-005NAA  
CA/MS-010NAA  
CA/MS-020NAA

Memosens cable Ex

3 m  
5 m  
10 m  
20 m\*)

CA/MS-003XAA  
CA/MS-005XAA  
CA/MS-010XAA  
CA/MS-020XAA

### CaliMat buffer solutions (20 °C)

pH value 2.00 ± 0.02

### Quantity

250 ml  
1000 ml  
3000 ml

### Order no.

CS-P0200/250  
CS-P0200/1000  
CS-P0200/3000

pH value 4.00 ± 0.02

250 ml  
1000 ml  
3000 ml

CS-P0400/250  
CS-P0400/1000  
CS-P0400/3000

pH value 7.00 ± 0.02

250 ml  
1000 ml  
3000 ml

CS-P0700/250  
CS-P0700/1000  
CS-P0700/3000

pH value 9.00 ± 0.02

250 ml  
1000 ml  
3000 ml

CS-P0900/250  
CS-P0900/1000  
CS-P0900/3000

pH value 12.00 ± 0.05

250 ml

CS-P1200/250

### MemoSuite

Management software for Memosens sensors

Basic version (calibration)  
Advanced version (calibration, diagnostics, and documentation)

### Order no.

SW-MS1400-B  
SW-MS1400-A

\*) Longer lengths upon request