



SE 555 pH Sensor

Sterilizable pH sensor providing high reliability and precision.

The SE 555 pH sensor comes with a special pH glass with high impedance for high-temperature applications and a low alkali error. The sensor is CIP- and SIP-capable. The silver ion trap prevents silver sulfide precipitation and junction fouling in media containing sulfides. This makes the sensor ideal for routine applications in food processing and biotechnology.

Applications

Fermentation, food and beverages, aggressive media, extreme pH values

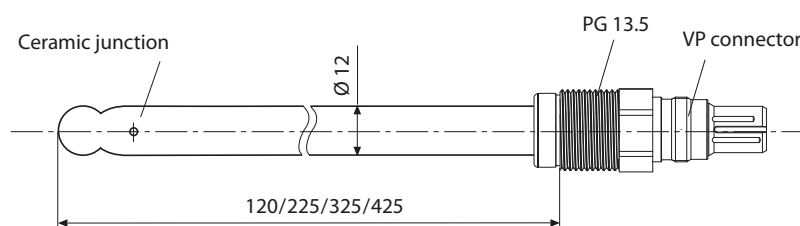
Facts

- Gel electrolyte, pressurized
- Ceramic junction
- Silver ion trap
- Integrated temperature detector
- pH glass with high impedance for high-temperature applications, low alkali error
- CIP/SIP-capable, safe sterilization with temperature monitoring

Specifications

pH:	0 ... 14
Temperature:	0 ... 135 °C
Temperature detector:	Pt1000
Pressure, relative:	-1 ... 6 bar
Reference system:	Ag/AgCl with silver ion trap
Electrolyte:	Prepressurized gel electrolyte
Junction:	Ceramic (1x)
pH glass:	Omega glass, high impedance, low alkali error
Length:	120 mm / 225 mm / 325 mm / 425 mm
Process adaptation:	PG 13.5
Sensor connector:	VP (VarioPin)
ATEX marking:	II 1/2 G Ex ia IIC T3/T4/T6 Ga/Gb

Dimension Drawing



All dimensions in mm

SE 555 pH Sensor

Product line

Sensor	Length	Order No.
SE 555 pH sensor	120 mm	SE 555X/1-NVPN
	225 mm	SE 555X/2-NVPN
	325 mm	SE 555X/3-NVPN
	425 mm	SE 555X/4-NVPN
Accessories	Length	Order No.
VP6-ST cable	3 m	CA/VP6ST-003A
	5 m	CA/VP6ST-005A
	10 m	CA/VP6ST-010A
	20 m	CA/VP6ST-020A
CaliMat Buffer Solutions (20 °C)	Quantity	Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
pH value 4.00 ± 0.02	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
	3000 ml	CS-P0400/3000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/3000
pH value 9.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/3000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor	ZU 0073



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Facts

- Gel electrolyte, pressurized
- Ceramic junction
- Silver ion trap
- Integrated temperature detector
- pH glass with high impedance for high-temperature applications, low alkali error
- CIP/SIP-capable

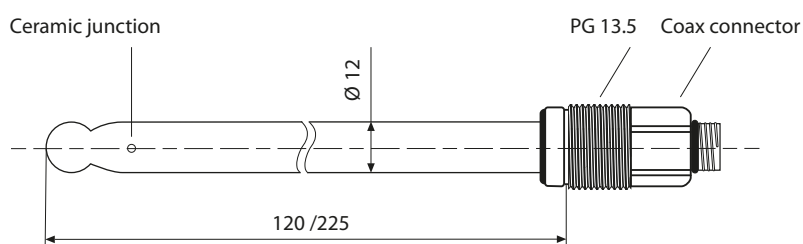
Applications

Fermentation, food and beverages, aggressive media, extreme pH values

Specifications

pH:	0 ... 14
Temperature:	0 ... 135 °C
Pressure, relative:	–1 ... 6 bar
Reference system:	Ag/AgCl with silver ion trap
Electrolyte:	Prepressurized gel electrolyte
Junction:	Ceramic (1x)
pH glass:	Omega glass, high impedance, low alkali error
Length:	120 mm / 225 mm
Process adaptation:	PG 13.5
Sensor connector:	Coax
ATEX marking:	II 1/2 G Ex ia IIC T3/T4/T6 Ga/Gb

Dimension Drawing

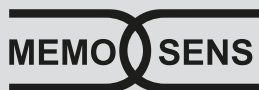


All dimensions in mm

SE 555 pH Sensor

Product Range

Sensor	Length	Order No.
SE 555 pH sensor	120 mm	SE 555X/1-NS8N
	225 mm	SE 555X/2-NS8N
Accessories	Length	Order No.
AS9 cable	5 m	ZU 0318
CaliMat Buffer Solutions (20 °C)	Quantity	Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
pH value 4.00 ± 0.02	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
	3000 ml	CS-P0400/3000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/3000
pH value 9.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/3000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor	ZU 0073



SE 555 pH Sensor

Digital, sterilizable pH sensor providing high reliability and precision.

The SE 555 digital pH sensor comes with a special pH glass with high impedance for high-temperature applications and a low alkali error. The sensor is CIP- and SIP-capable. The silver ion trap prevents silver sulfide precipitation and junction fouling in media containing sulfides. This makes the sensor ideal for routine applications in food processing and biotechnology. Additionally the Memosens technology offers all well known advantages concerning operation and sensor diagnostics.

Applications

Fermentation, food and beverages, aggressive media, extreme pH values

Facts and Features

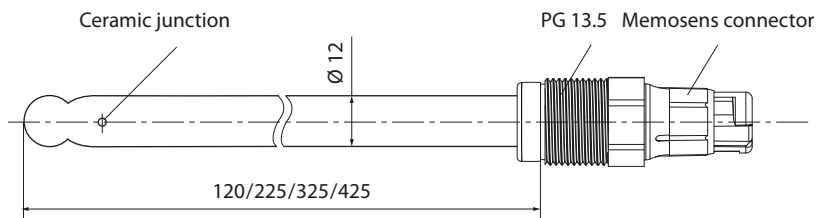
- Gel electrolyte, pressurized
- Ceramic junction
- Silver ion trap
- Integrated temperature detector
- pH glass with high impedance for high-temperature applications, low alkali error
- CIP/SIP-capable, safe sterilization with temperature monitoring
- Also available as version without paint-wetting impairment substances (PWIS-free)
- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics

Specifications

pH:	0 ... 14
Temperature:	0 ... 135 °C
Temperature detector:	NTC 30 kΩ
Pressure, relative:	–1 ... 6 bar
Reference system:	Ag/AgCl with silver ion trap
Electrolyte:	Prepressurized gel electrolyte
Junction:	Ceramic (1x)
pH glass:	Omega glass, high impedance, low alkali error
Length:	120 mm / 225 mm / 325 mm / 425 mm
Process connection:	PG 13.5
Sensor connector:	Memosens
ATEX Certificate:	II 1 G Ex ia IIC T3/T4/T6 Ga
FM Certificate:	IS for Class I, Division 1, Groups A, B, C, D; Class I, Zone 0, AEx/Ex ia IIC T6 ... T4 NIFW for Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, IIC T6 ... T4

SE 555 pH Sensor

Dimension Drawing



All dimensions in mm

Product Range

Sensor	Length	Order No.
SE 555 pH sensor	120 mm	SE 555X/1-NMSN
	225 mm	SE 555X/2-NMSN
	325 mm	SE 555X/3-NMSN
	425 mm	SE 555X/4-NMSN
SE 555 pH sensor, PWIS-free	120 mm	SE 555X/1-NMSN-LABS

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
pH value 4.00 ± 0.02	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
	3000 ml	CS-P0400/3000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/3000
pH value 9.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/3000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250

MemoSuite		Order No.
Management software for Memosens sensors	Basic version (calibration)	SW-MS1400-B
	Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

^{*)} Greater lengths on request