

InPro® 3300

The non-glass pH combination electrode

Technical data



InPro 3300

Short description

METTLER TOLEDO combined pH electrode with a «solid-state» pH sensitive part (ISFET) for highly demanding processes in the food industry.

- Non-glass pH technology eliminates the risk of broken glass in your process.
- Real-time control over your process without time-consuming grab-sample analysis.
- Unbreakable ISFET pH electrode.
- Suitable for hygienic applications: successfully tested according to EHEDG, FDA compliant materials, fully sterilizable.
- VP connector for IP 68 protection.
- Fits perfectly to the retractable housings InTrac 798 and InTrac 797e for highest demands in hygiene and sterility.

Certificates

- EHEDG
- 3-A

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METTLER TOLEDO

Specifications

Measuring range	pH 0...14 ¹⁾
Temperature range	0...80 °C (32...176 °F) for measurement 130 °C (266 °F) for sterilization
Pressure resistance	0...6 bar (0...87 psi) at 80 °C (176 °F)
pH sensor	ISFET, «solid-state»
Reference electrode	gel electrolyte, one ceramic diaphragm
Reference element	Argenthal (Ag/AgCl)
Shaft	diameter: 12 mm, PEEK surface roughness: $R_A < 0,8 \mu\text{m}$
Wetted material	PEEK FDA compliant (21CFR177.2415) EPDM elastomers FDA compliant (21CFR177.2600) FDA compliant if installed in a housing
Temperature sensor	Pt 1000
Insertion length	a = 120 mm, 225 mm, 325 mm
Plug head	VarioPin (VP), Pg 13.5 thread, washer PTFE, O-ring Viton®
VP-connector	IP68, autoclavable
Cable with preamplifier	operation temperature: 0...70 °C (32...158 °F)

¹⁾ There is a small range of high pH values at high temperatures where the lifetime of the sensor is reduced. As the pH and temperatures of CIP chemicals are typically in this range, the InPro3300 sensor should be retracted with InTrac798 during CIP cycle.

Ordering information

pH electrode

	Electrode length [a]	Order no.	Suitable housing
Temperature sensor Pt 1000			
InPro 3300/120/Pt 1000	120 mm	52 002 253	InTrac798 od. InFit761-CIP
InPro 3300/225/Pt 1000	225 mm	52 002 496	InTrac777e od. InFit761-CIP
InPro 3300/325/Pt 1000	325 mm	52 002 497	InTrac797e od. InFit761-CIP

Cable with preamplifier

Operation temperature	Order no.	Order no.	Order no.
0...70 °C (32...158 °F)	VP6-ST/ISFET/3 m 52 300 313	VP6-ST/ISFET/5 m 52 300 314	VP6-ST/ISFET/10 m 52 300 315

pH transmitter

	Order no.
pH 2100e	52 121 102

Buffer solutions

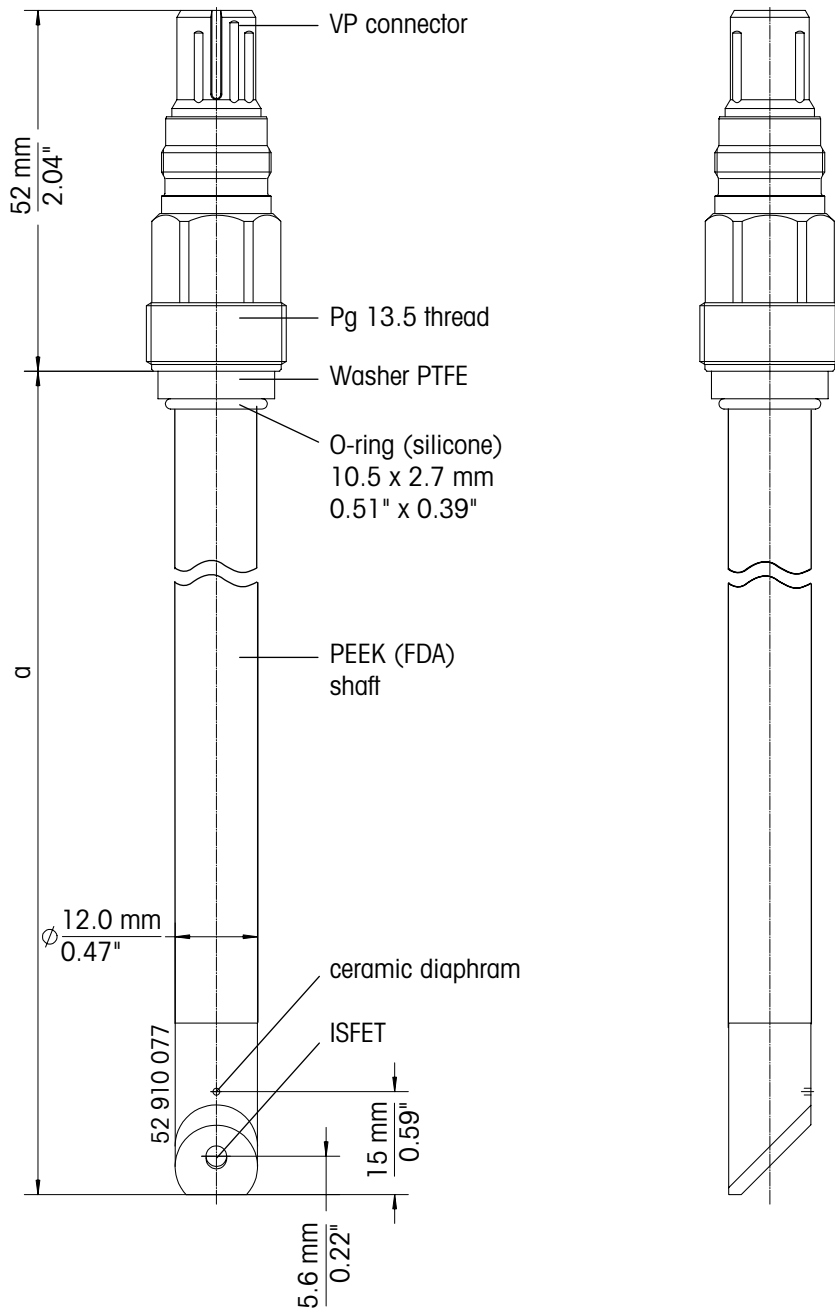
	Order no. 1 x 250 ml	Order no. 6 x 250 ml	Order no. 1 x 1000 ml
pH buffer solution			
Buffer pH=4.01 (red)	51 340 057	51 340 058	51 340 228
Buffer pH=7.00 (green)	51 340 059	51 340 060	51 340 229
Buffer pH=9.21 (blue)	51 300 193	51 300 194	51 340 230

Transmitter

The non-glass pH electrode InPro 3300 will only work with the cable VP6-ST/ISFET. The preamplifier needs an external power supply. The pH transmitter 2100e is designed to power the preamplifier. InPro 3300 will not work in combination with other pH transmitters.

Drawing

InPro 3300



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Management System
certified according to
ISO 9001 / ISO 14001

Subject to technical changes.
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02/04 Printed in Switzerland. 52 002 262

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