

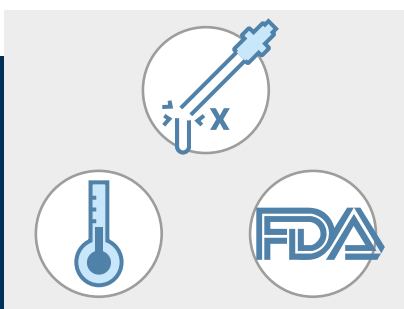
SE547

Break-resistant ISFET sensor for a wide range of process and hygiene applications



The glass-free SE547 combines high chemical resistance with quick reaction times.

Whether in the food or pharmaceutical industry – the SE547 sensor delivers precise pH values even under demanding conditions. Its completely encapsulated design with a PEEK body, ISFET chip and integrated temperature detector ensures process reliability and a long service life. The sensor is certified for use in potentially explosive atmospheres and features impressively fast response times as well as minimal acid and alkali errors even at extreme pH values.



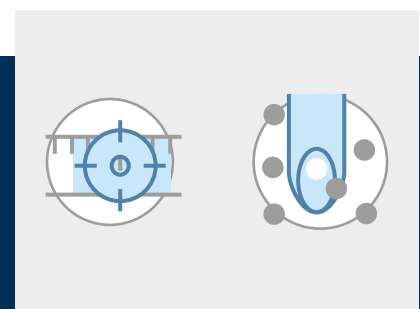
Glass-free ISFET sensor – break-resistant and hygienic

- Break-resistant and easy to clean
- FDA-compliant PEEK body for hygienic processes
- pH-sensitive ISFET chip
- Precise measurement even at low temperatures



High chemical resistance – robust and process-stable

- Enclosed PEEK sheathing protects against corrosive media
- Steam sterilizable, autoclavable, SIP-capable
- Reliable measurement results even after frequent SIP cycles



Precise measurement even under difficult conditions

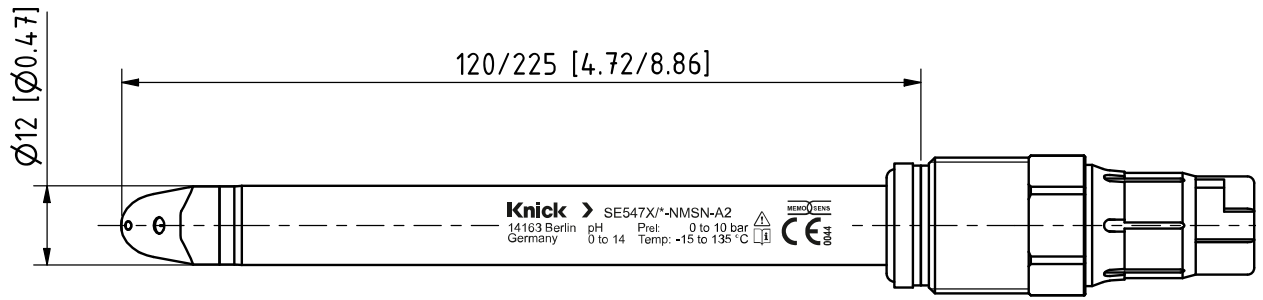
- 45° measurement angle at the sensor tip for stable values when bubbles form
- Minimal acid and alkali errors in extreme pH ranges
- Precise measurement even in the event of temperature and pressure fluctuations

Specifications (Excerpt)

Excerpt from the user manual. Detailed information → knick-international.com

Measuring range	
pH	0... 14
Process temperature	–15... 135 °C (5... 275 °F)
Relative process pressure	–0.2... 10 bar (–2.9... 145 psi) at –15... 100 °C (5... 212 °F) –0.2... 3 bar (–2.9... 43.5 psi) at 100... 135 °C (212... 275 °F)
Temperature detector	Pt1000
Material	
Body	PEEK-FDA
Junction	Ceramic
Sensor tip	ISFET
Reference system	Ag/AgCl/Cl [–] gel electrolyte KCl 3 mol/l
Process connection	PG 13.5
Tightening torque	1... 3 Nm
Electrical connection	Memosens connector
Dimensions	See graphic

Dimension Drawing



All dimensions in millimeters [inches]

105199 TB-300.010-KNEN01 2025-12-01

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Subject to change.