

ISFET Digital pH Sensor

A glass-free high-performance pH combination electrode with Memosens digital connectivity ideal for pharmaceutical production and food processing. Glass-free construction prevents the accidental introduction of glass contaminants that can impact the safety of products.

Benefits

- Break-resistant
- Biocompatibility through in vitro (cytotoxicity) and in vivo biological reactivity tested in accordance with USP 87 and USP 88 Cl. VI (121 °C (250 °F))
- Sterilizable and autoclavable
- Longer calibration intervals than with pH glass electrodes
- Highly accurate
- Integrated Pt1000 temperature sensor
- Very low strong acid/alkali errors
- Remote calibration—sensor data saved on board for plug and play connectivity
- Memosens Digital Connection Technology

Applications

Pharma

- Pharmaceutical Formulation
- Buffer Preparation
- Fermentation
- Cell Culture

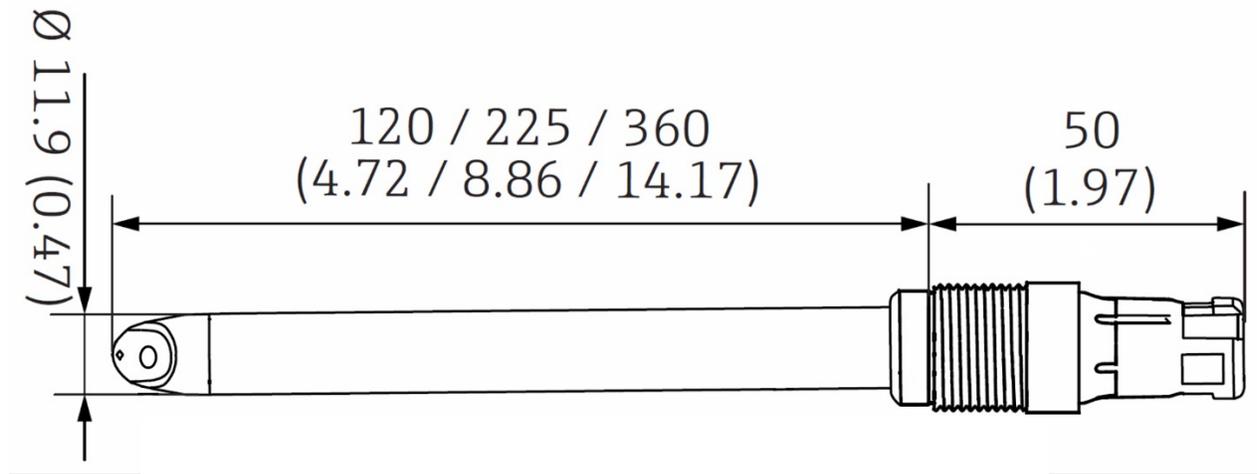
Food and Beverage

- Milk Monitoring
- CIP Monitoring
- Sauces and Spreads (i.e., Mayonnaise)
- Brewing
- Soft Drink Additives
- Water Quality Monitoring



General Specifications

Process Connection		Pg 13.5 Thread
pH Range		0 to 14 pH (Permanent operation at ≥ 13 pH @ $>65^{\circ}\text{C}$ / 149°F is not recommended)
Repeatability		± 0.01 pH
Temperature Range		-15 to 135°C / 5 to 275°F
Process Pressure Range		0.8 to 11 bar / 11.6 to 159.5 psia
Pressure/ Temperature Limits	Max. Operating	11 bar / 160 psia @ 100°C / 212°F
	Max. Sterilization	4 bar / 58 psia @ 135°C / 275°F , 1 hr maximum
Minimum Conductivity		50 $\mu\text{S}/\text{cm}$
Ambient Temperature		Risk of damage. Do not use below -15°C / 5°F
Storage Temperature		0 to 50°C / 32 to 122°F
t₉₀ Response Time		< 5 seconds (buffer change from 4 to 7)
Ingress Protection		IP68
Surface Roughness		$R_a < 0.76$ μm (30 μin)
Probe Lengths Available		$120, 225, 360$ mm / $4.72, 8.86, 14.17$ "
Process Contact Materials	Shaft	PEEK
	Seals	FFKM
	Reference Junction	Ag/AgCl, Ceramic, Zirconium Dioxide



Related Equipment and Accessories

- OCM44 Memosens pH Transmitter
- Memosens Cables
- Static Probe Holders/Adapters
- Manual and Automatic Probe Retractors
- Automated Cleaning Systems
- Inline Flow Cells
- Calibration Buffers

Contact us for details