



Cultivation Systems From Discovery to Production



Engineering for Life

pH Sensors

- Low sensitivity to fouling and thus drifting due to sleeve diaphragm
 - Accurate measurement
 - Stable signal over longer time
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In your industry it is vital to have precise information about the pH value of the bioprocess. The pH level directly affects viability, productivity, and stability of the cells and it influences analysis of active ingredients. The AppliSens pH+ sensor has a fixed sleeve diaphragm that reduces the influence of the culture medium on the pH measurement. Compared to classic diaphragm types, this sleeve diaphragm increases measuring accuracy and increases the lifetime of the sensor which is vital for long lasting biotech cultivation processes.

Features

- Robust design by using tempered glass shaft
 - Sensor head occupies minimal space on bioreactor top plate
 - Withstands repeated SIP and CIP cycles
 - Standardized PG 13.5 connection guarantees interchangeability with other bioreactor brands
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Applications

- Microbial cultures
 - Anaerobic microbial cultures (RedOx)
 - Cell cultures
 - Batch
 - Fed Batch
 - Continuous cultures
 - Perfusion cultures
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Specifications

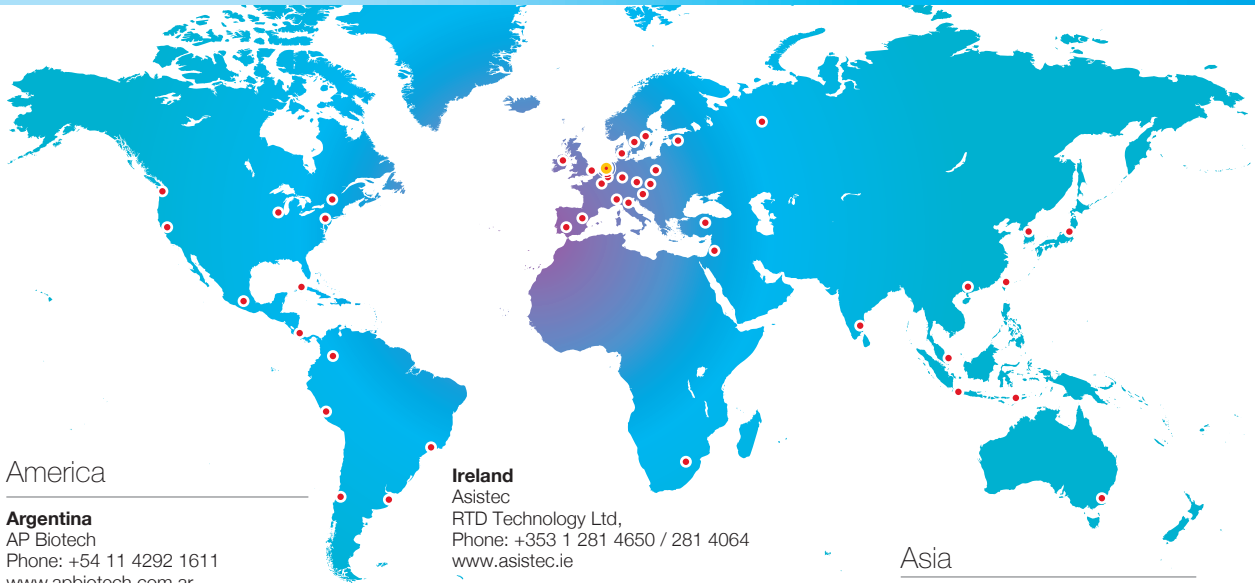
Parameter	As Delivered
pH range	0 - 12 pH
Temperature range	0 - 135°C
Electrode zero point (E7)	+/-15 mV
Electrode slope (S4/7)	> 98%
Isothermal Intersection- pH (Eiso)	6.5 - 8
PH Range	4 - 9
Membrane resistance @ 25°C (ohm)	<1200
Membrane resistance @ 37°C (ohm)	<500
Calibration drift in Buffer 9 (mV / min)	< 2
Stirring Error (Buffer 9 @ 25 °C - pH)	< 0.05
Drift 72 hours after Autoclaving pH	< 0.13
Zero-point drift per week in PBS (pH)	< 0.05
Response Time (pH 9 to 4 @ 25 °C in Seconds)	< 90
Response Time 90% (pH 9 to 4 @ 25°C in Seconds)	< 45
Response Time (pH 9 to 4 @ 37°C in Seconds)	< 45
Response Time 90% (pH 9 to 4 @ 37°C in Seconds)	< 45

Related products

- pH gel sensor Ø 8 mm (L = 115 / 135 / 185)
- pH gel sensor Ø 12 mm (L = 120 / 235 / 325 / 425 / 590)
- pH sensor cable (L = 0.65M / 2.0M)
- pH sensor electrical connection



pH Sensor in TracFix retractable sensor holder



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