## OneFerm pH VP 70 Pt100

Specification Sheet (Part/REF # 243216)



OneFerm pH sensors are offer multiple electrical connector options and sensor lengths to work with most single use bags and bioreactor installations.

## **Product Specifications**

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Sensor Family	OneFerm
Parameter	рН
a-length	70 mm
Electrical Connector	VP6
Sensor Output	Traditional: mV
Measurement Principle	Combination electrode; pH potential measured against reference
Measuring Range	pH 3 to 10
Sensitivity	Before gamma irradiation: 57 to 60 mV/pH at 25 $^{\circ}$ C (97 $^{\circ}$ -101 $^{\circ}$ ); Shift after gamma irradiation: $\pm$ 1.5 mV/pH
Zero Point	Before gamma irradiation: ± 20 mV; Shift after gamma irradiation: ± 10 mV
Calibration Data	Yes, provided on sensor label
pH Accuracy	After gamma irradiation and dry storage: $\pm$ 0.15 pH with provided calibration values. $\pm$ 0.1 pH after product calibration at the measurement temperature and within 2 pH units from the product calibration point
Drift at Room Temperature	< 0.1 pH per week after wet-in time, in buffer pH 7
Membrane Shape	Spherical
Diaphragm	HP-Coatramic
Temperature Sensor	Pt100
Diameter	12 mm
<b>Process Connection</b>	PG13,5
Wetted Parts	Glass VMQ (Silicone elastomer)
O-ring Material	FDA 21 CFR 177.2600; EG 1935/2004; USP <87>; USP <88> Class VI (121 °C)
Biocompatibility	Yes, tested according to ISO 10993-5 and USP <87>
Wet-in Time	30 min after dry storage
Shelf Life	12 months prior gamma irradiation. 18 months after gamma irradiation
Autoclavable	No
CIP	No
Steam Sterilizable	No
Gamma Irradiatable	Yes, up to 45 kGy
Operating Temperature Range	4 to 50 °C
Sample min Conductivity	100 μS/cm

Pressure Range bar g

0 to 2 bar

Specifications are subject to change without notice

https://www.hamiltoncompany.com/sensors/243216

Spec. Version B