

OneFerm pH VP 70 NTC

Specification Sheet (Part/REF # 243235)



OneFerm Arc Compatible pH Sensors fully integrate with Arc Intelligent sensor technology for data-rich sensor information in single use applications.

Product Specifications

Sensor Family	OneFerm
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 °C (97 % -101 %); Shift after gamma irradiation: ± 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: ± 0.15 pH with provided calibration values. ± 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	NTC 22 kOhm
Diameter	12 mm
Process Connection	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 μ S/cm
Pressure Range bar g	0 to 2 bar

