

# OneFerm pH VP 70

## Specification Sheet (Part# 238999-4955 )



The Hamilton OneFerm pH sensor is a single use glass electrode for pH measurement. It retains the high accuracy performance of a glass electrode after gamma irradiation and dry storage. It is delivered as an integrated part of a single use container to provide ease of use. The OneFerm pH sensor is only available to integrators such as bag-, bioreactor- or downstream skid manufacturers.

### Product Specifications

Measurement Principle	Combination electrode; pH potential measured against reference
Measuring Range	pH 3 – 10
Sensitivity	Before gamma irradiation: 57 to 60 mV/pH at 25 °C (97% -101 %); Shift after gamma irradiation: $\pm 1.5$ mV/pH
Zero-Point	Before gamma irradiation: $\pm 20$ mV; Shift after gamma irradiation: $\pm 10$ mV
Membrane Shape	Cylindrical
Diaphragm	Yes
Temperature Sensor	Pt1000
Drift at Room Temperature	< 0.1 pH per week after wet-in time, in buffer pH 7
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
Autoclavable	No
CIP	No
Steam Sterilizable	No
Pressure Range	0 to 2 bar
O-ring Material	Silicone (FDA and USP Class VI approved)
Serial Number	Yes
Diameter	12 mm

## Product Specifications

Process Connection	PG 13.5
Electrical Connector	VP 6
a-length	70 mm
Wetted Parts	Glass, Silicone
Calibration Data	Yes, provided on sensor label
Gamma Irradiatable	Yes, 25 – 45 kGy
Shelf Life	12 months after gamma irradiation
Biocompatibility	Yes, tested according to ISO 10993-5 and USP <87>
Operation Temperature	4 to 50°C
Wet-in Time	30 min after dry storage

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