

# InchTrode N75F

Specification Sheet (Part/REF # 238346)



Specially suited for direct mounting in industrial applications with 3/4 and 1" NPT process connections.

## Product Specifications

<b>Sensor Family</b>	InchTrode
<b>Parameter</b>	pH
<b>Sensor Output</b>	Traditional: mV
<b>a-length</b>	143 mm
<b>Electrical Connector</b>	VP6
<b>Measurement Principle</b>	Combination electrode; pH potential measured against reference
<b>Measuring Range</b>	pH 0 to 14
<b>Sensitivity</b>	57 to 59 mV / pH at 25 °C
<b>Zero Point</b>	0 ± 20 mV
<b>pH Glass</b>	Hamilton Type HF Glass: For < 0.01M / 200 mg/l HF at 20 °C or 0.05M / 1000mg/l HF at 50 °C
<b>pH Glass Resistance</b>	Moderate
<b>Membrane Shape</b>	Flat
<b>Diaphragm</b>	Single Pore ring
<b>Number of Diaphragms</b>	1
<b>Electrolyte</b>	Polisolve
<b>Reference System</b>	Hamilton Everef-L
<b>Liquid Earth</b>	Yes
<b>Temperature Sensor</b>	Pt1000
<b>Diameter</b>	22 mm
<b>Process Connection</b>	NPT 3/4" Thread
<b>Wetted Parts</b>	Glass PEEK (Polyetheretherketone)
<b>Serial Number</b>	Yes
<b>Recommended Storage</b>	Hamilton Storage Solution or 3 M KCl
<b>Certificate</b>	Yes, with measured values in Buffer pH 4.01 and pH 7.00
<b>ATEX Approval</b>	II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db
<b>IECEX Approval</b>	II 1/2 G Ex ia IIB T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db
<b>Autoclavable</b>	Yes
<b>CIP</b>	No
<b>Steam Sterilizable</b>	Yes
<b>Operating Temperature Range</b>	-10 to 130 °C

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**Sample min Conductivity** 2  $\mu$ S/cm

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**Pressure Range bar g** 0 to 10 bar at 25 °C, 0 to 6 bar at 130 °C

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Specifications are subject to change without notice

**Spec. Version B**

<https://www.hamiltoncompany.com/process-analytics/sensors/238346>