

Rosemount™ 372

HF Resistant pH Sensor



A robust pH sensor for challenging water applications

The Rosemount 372 sensor is ideal for measuring pH in etching solutions or waste water containing fluoride or hydrofluoric acid. These sensors feature a special fluoride and acid resistant pH glass formulation allowing for improved lifetime in processes containing fluoride ions.

Overview

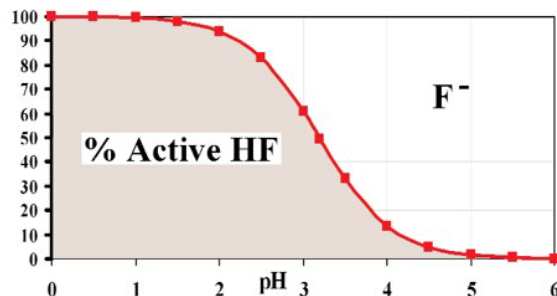


High Performance Design

- Special fluoride and acid resistant pH glass formulation extends sensor life and resistance to process attack.
- Poisoning ion resistant double junction reference cell design.
- Chemically resistant Ultem body construction.
- 3/4 in. MNPT forward facing and 1 in. MNPT rear facing process connections allow for flexible insertion and submersion type installation.

Hydrofluoric Acid Resistant

- Glass composition reduces HF attack by more than a factor of ten.



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Ordering Information



The Rosemount 372 HF resistant pH sensor is designed for extended lifetime in processes containing fluoride ions. Sensors come standard with a Pt-100 RTD for temperature measurement and compensation. Sensors are available with or without an integral preamplifier.

Table 1. Rosemount 372 pH Sensor ordering information

Model	Sensor type
372	pH Sensor
Preamplifier/cable	
01	25 ft. Integral Cable with Integral Preamplifier
02	15 ft. Integral Cable without Integral Preamplifier
Typical Model Number:372-01	

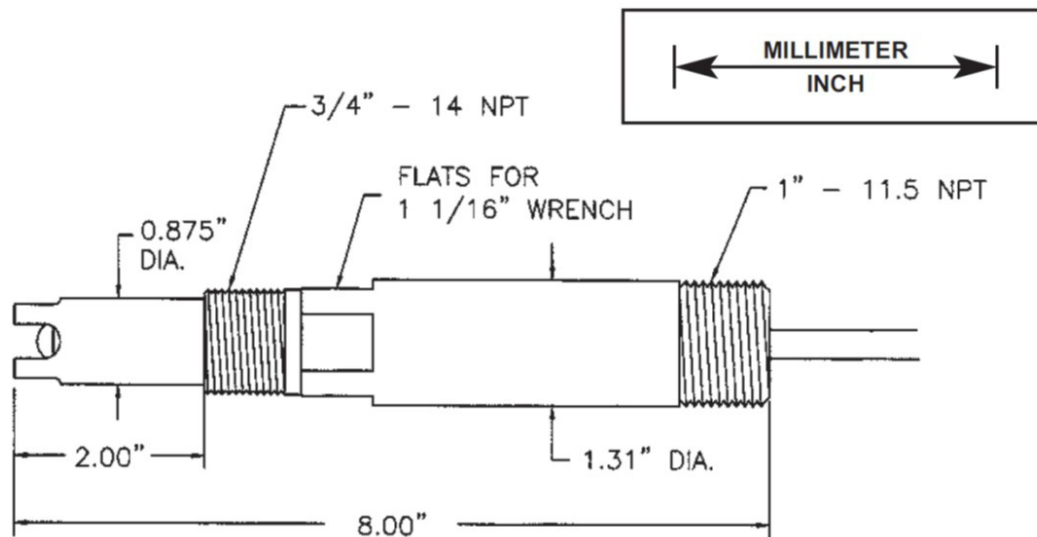
Specifications

Table 2. Rosemount 372 HF resistant pH sensor specifications

Materials of construction
Ultem, Viton, glass, Kynar
Process connections
3/4 in. forward (insertion) and 1 in. reverse (submersion) MNPT
Insertion depth
2.2 in. to 8.3 in.
Measured range
0 to 12 pH (0-14 pH if no sodium ions are present)
Pressure range
-13 to 135 psig (6.9 to 1035 kPa abs)
Temperature range
-5 to 50 °C [23 to 122 °F] (100 °C [212 °F] if no fluoride ions are present)
Temperature compensation
Pt 100
Weight/shipping weight
0.4 kg/0.9 kg (1 lb/ 2 lb)
pH glass type
Hemispherical
Glass diameter
7.8mm
Glass impedance
Less than 400 MΩ @ 25 °C
Acidic error
Less than .01 pH in 1.0M HCl @ 0.0pH
Reference type
Double junction with saturated KCL in cross-linked polymer

Dimensional Drawings

Figure 1. Rosemount 372 pH Sensor Dimensional Drawing





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