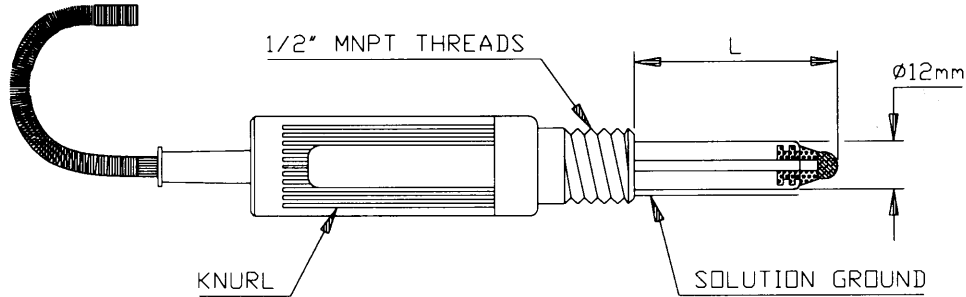




# Innovative Sensors, Inc.

ISI SOLUTIONS - Specialty Sensors for Universal Applications

## Model 25 - 1/2" MNPT Sensor



The Model M-25 pH sensor uses standard 1/2" MNPT threads for tee mounting. This combination sensor incorporates pH, reference and solution ground in a robust PPS (Ryton®) housing. Double junction reference construction makes the M-25 highly resistant to electrode poisoning solutions.

The unique glass membrane and reference electrolyte selections make this disposable sensor ideal for general purpose, high temperature and harsh chemical service.

## Applications

The Model 25 is recommended for use in water and wastewater treatment applications, cooling towers, plating baths and general industrial service.

## Specifications

|                      |   |
|----------------------|---|
| pH Range             | 0 to 14 pH                                      |
| Temperature Range    | -5°C to +121°C                                  |
| Pressure Range       | 100psig @ 25°C                                  |
| Impedance            | 150Mohm @ 25°C                                  |
| Reference Cell       | Annular, Double Junction                        |
| Reference Junction   | Porous Teflon®                                  |
| Zero Potential       | 7.0 pH ± 0.2 pH                                 |
| Output Signal        | 59.16 mV per pH unit @ 25°C                     |
| Insertion Length (L) | 1.5 inches standard                             |
| Response Time        | 95% of reading in 5 seconds                     |
| Drift                | Less than 2mV per week                          |
| Wetted Materials     | Ryton® R-4, Glass, Teflon®, 316 Stainless Steel |

PMI

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CERTIFICATE NO. A2865

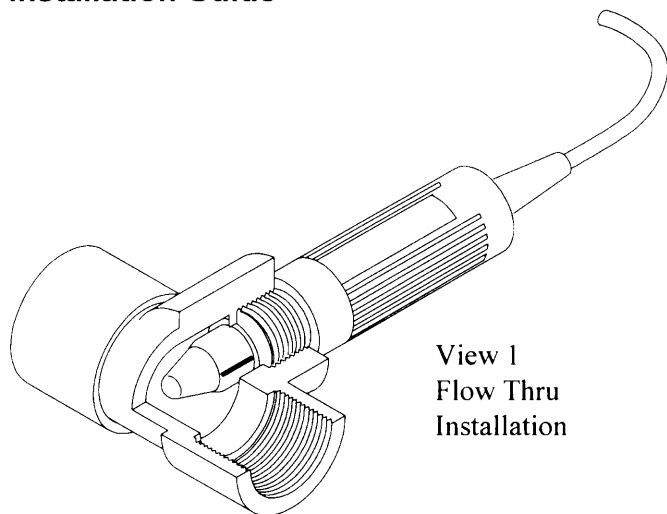


## Available Options

|             |  |
|-------------|--|
| M-25        | pH sensor with 1/2" MNPT housing                     |
| M-25-ORP    | Platinum sensing element for redox measurement (ORP) |
| M-25-Na     | Glass sodium membrane                                |
| M-25-PT100  | Includes DIN standard PT100 RTD                      |
| M-25-PT1000 | Includes DIN standard PT1000 RTD                     |
| M-25-3KTC   | Includes standard 3000 ohm temperature compensator   |

The Model 25 is supplied with a 10' multi-conductor cable with BNC connector and spade lug for solution ground.

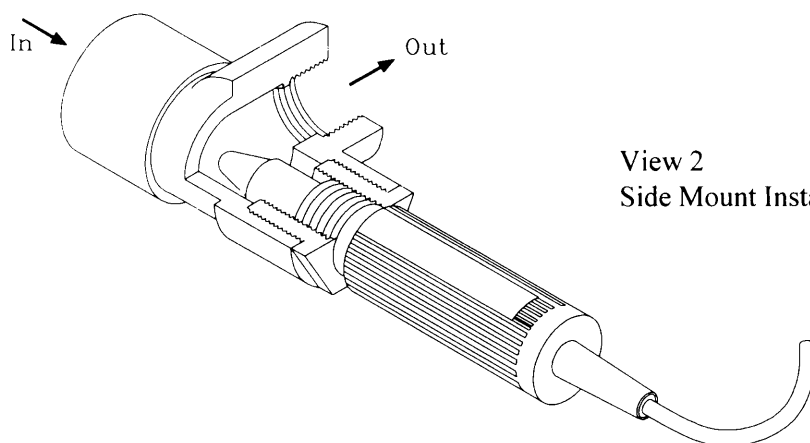
## Installation Guide



View 1  
Flow Thru  
Installation

### Wiring Information

The M-25 is fitted with a BNC connector for direct plug-in to the instrument or junction box. A solution ground lead comes standard, but does not need to be hooked up for the sensor to work.



View 2  
Side Mount Installation

Teflon<sup>®</sup> is a registered trademark of E.I. Du Pont de Nemours + Co.  
Ryton<sup>®</sup> is a registered trademark of Phillips 66 Co.



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