

Available Options

M-12	Designed specifically for insertable use in process and waste water applications. Ideal for pipelines with flow velocity greater than 30cm/sec.
M-12-AMP	Integral unity gain amplifier boosts the signal to a noise free level allowing the signal to be transmitted hundreds of feet.
M-12-HT	For use in temperatures above 80°C, except where ethers, ketones and most aromatic hydrocarbons are present. If these solvents are present the standard version should be used, regardless of the temperature.
M-12-HpH	High pH (high alkalinity) version for use where pH is consistently above pH 11.
M-12-HT-HpH	High Temperature version of the M-12-HpH.
M-12-PT100	Includes DIN standard PT100 RTD.
M-12-PT1000	Includes DIN standard PT1000 RTD.
M-12-3KTC	Includes standard 3000 ohm temperature compensator.
M-12-FLAT	Optimum use in extremely viscous liquids.
M-12-ISE	Refer to specific ion series datasheet.

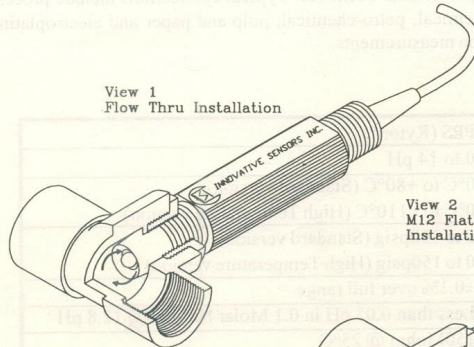
The Model 12 is supplied with a 15 foot TPE high temperature/ultra low noise cable and a BNC connector as standard. An "O" ring sealed BNC "Quick Disconnect" (QD) connector can be supplied instead of the standard 15 foot cable length. Add "- QD" for this option.

Installation Guide

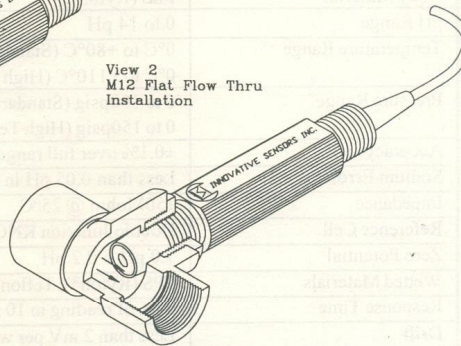


Quick Disconnect

View 1
Flow Thru Installation



View 2
M12 Flat Flow Thru
Installation



The sensing tip should be installed just inside the pipe where the flow is least turbulent.

* Patent No. 4,333,812
** Patent No. 4,128,468

Teflon® and Viton® are registered trademarks of E.I. Du Pont de Nemours + Co.
Ryton® is a registered trademark of Phillips 66 Co.
Kynar® is a registered trademark of Elf Autochem North America.

Mounting Tees are available in
PVC, PVDF (Kynar®) and
Stainless Steel



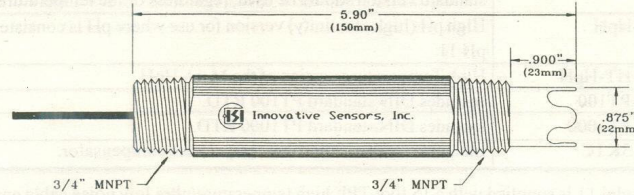
Form Ref: I12-DS-A94



Innovative Sensors, Inc.

ISI SOLUTIONS - Specialty Sensors for Difficult Applications

Model 11 - General Purpose 3/4" MNPT Sensor



The Model 11 is a versatile combination pH sensor designed for both submersible and insertable use in process and waste water applications.

The outer body material is PPS (Ryton®) and has 3/4" MNPT front and rear facing threads. This allows the sensor to be inserted in a standard pipe tee or immersed in a tank with an extension pipe. The sensor features sealed double junction construction which is highly resistant to electrode poisoning solutions. Coupled with the novel PLUNGER® pH glass electrode design, the Model 11 assures a low maintenance service life in most applications.

Bulb protectors reduce the risk of accidental breakage and deflect slow moving particulates in pipes or tanks. Use of the High Temperature version is recommended where service temperatures continuously exceed 80°C.

Applications

The Model 11 is recommended as a general purpose sensor for submersion/insertion into tanks or in pipelines. Available for ORP applications.

Specifications

Body Material	PPS (Ryton®)
pH Range	0 to 14 pH
Temperature Range	0°C to +80°C (Standard version) 0°C to +110°C (High Temperature version)
Pressure Range	0 to 100psig (Standard version) 0 to 150psig (High Temperature version)
Accuracy	±0.1% over full range
Sodium Error	Less than 0.05 pH in 0.1 Molar Na ⁺ ion @ 12.8 pH
Impedance	150Mohm @ 25°C
Reference Cell	Double Junction KNO ₃ and KCl/AgCl
Zero Potential	7.0 pH ± 0.2 pH
Wetted Materials	PPS (Ryton®), Teflon®, Viton®, Glass
Response Time	95% of reading in 10 seconds
Drift	Less than 2 mV per week

SAELECTRONIC

PH : 27111583



INNOVATIVE SENSORS INC.
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CERTIFICATE NO. A2865

