

## pH Sensors



M-10

[www.intech.co.nz/m10](http://www.intech.co.nz/m10)

### **Model 10** – General purpose ½” NPT pH sensor.

Temperature: -5~80°C.  
 Pressure: 0~100 psi.  
 Cable length: 4.6 metres.  
 Ref. cell: Single junction, KCl/AgCl.  
 Ref. junction: Porous teflon.  
 Applications: Non toxic solutions e.g. Potable water, cooling towers, fresh/salt water aquariums.

MODEL	DESCRIPTION	PRICE
<b>M-10</b>	<b>Model 10</b> General purpose ½” NPT pH sensor.	\$355.00
<b>M-10-ORP</b>	<b>Model 10-ORP</b> General purpose ½” NPT ORP sensor. Used for Redox measurement in relatively clean waters.	\$410.00



M-11

[www.intech.co.nz/m11](http://www.intech.co.nz/m11)

### **Model 11** – General purpose ¾” NPT pH sensor.

Temperature: 0~80°C.  
 Pressure: 0~100 psi.  
 Cable length: Standard 4.6 metres. Option of 10m. (Note: 10m is maximum length.)  
 Ref. cell: Double junction, KNO<sub>3</sub> and KCl/AgCl.  
 High resistance to electrode poisoning solutions.  
 Applications: For both submersible and insertable use in process and waste water.

MODEL	DESCRIPTION	PRICE
<b>M-11</b>	<b>Model 11</b> General purpose ¾” NPT pH sensor.	\$480.00
<b>M-11-Pt100</b>	<b>Model 11-Pt100</b> General purpose ¾” NPT pH sensor. Includes a Pt100 sensor.	\$595.00
<b>M-11-Pt100-HT</b>	<b>Model 11-Pt100-HT</b> General purpose ¾” NPT pH sensor. High temp. version including a Pt100 sensor. High temperature: 0~110°C. High pressure: 0~150 psi. Do not use where ethers, ketones and most aromatic hydrocarbons are present. If these solvents are present use the standard version regardless of the temperature.	\$685.00

**NOTE**

For alkaline conditions between pH 7 ~ 13 use the -HT option.  
 For conditions above pH 13 contact Intech.



M-12

[www.intech.co.nz/m12](http://www.intech.co.nz/m12)

### **Model 12** – General purpose ¾” NPT pH sensor for flowing, viscous applications.

Temperature: 0~80°C.  
 Pressure: 0~100 psi.  
 Cable length: 4.6 metres.  
 Ref. cell: Double junction, KNO<sub>3</sub> and KCl/AgCl.  
 High resistance to electrode poisoning solutions.  
 The concave sensor configuration protects the pH bulb from particulate matter and provides a cleansing flow without affecting the line pressure characteristics.  
 Applications: Ideal for pipelines with flow velocities greater than 30 cm/sec. Typical applications include batching and process control in the chemical, petro-chemical, pulp/paper and electroplating industries.

MODEL	DESCRIPTION	PRICE
<b>M-12</b>	<b>Model 12</b> General purpose ¾” NPT pH sensor.	\$480.00
<b>M-12-Pt100</b>	<b>Model 12-Pt100</b> General purpose ¾” NPT pH sensor. Includes a Pt100 sensor.	\$595.00
<b>M-12-Pt100-HT</b>	<b>Model 12-Pt100-HT</b> General purpose ¾” NPT pH sensor. High temp. version including a Pt100 sensor. High temperature: 0~110°C. High pressure: 0~150 psi. Do not use where ethers, ketones and most aromatic hydrocarbons are present. If these solvents are present use the standard version regardless of the temperature.	\$685.00

<< Please refer to page 36 for our **pH-HR** data logger - ideal for use with these pH probes!  
 (We recommend the probes that include the -Pt100 option for the best possible accuracy with the **LPI-pH** & **pH-HR**).

**Model 21 – General purpose 3/4" NPT pH sensor with long insertion length.**

Temperature: 0~80°C.

Pressure: 0~100 psi.

Cable length: 4.6 metres.

Ref. cell: Double junction, KNO<sub>3</sub> and KCl/AgCl.

High resistance to electrode poisoning solutions, typically those with cyanide, ammonia, sulphide and heavy metals in appreciable concentrations.

Applications: A combination pH sensor for insertion in tanks and large diameter pipes using process and waste water.

MODEL	DESCRIPTION	PRICE
<b>M-21</b>	<b>Model 21</b> General purpose 3/4" NPT pH sensor with long insertion length.	\$515.00
<b>M-21-Pt100</b>	<b>Model 21-Pt100</b> General purpose 3/4" NPT pH sensor with long insertion length. Includes a Pt100 sensor.	\$630.00
<b>M-21-Pt100-HT</b>	<b>Model 21-Pt100-HT</b> General purpose 3/4" NPT pH sensor with long insertion length. High temperature version including a Pt100 sensor. High temperature: 0~110°C. High pressure: 0~150 psi. Do not use where ethers, ketones and most aromatic hydrocarbons are present. If these solvents are present use the standard version regardless of the temperature.	\$750.00
<b>Options</b>		<b>Add Price</b>
<b>Z7450</b>	<b>Cleaning Cage Kit.</b>	\$320.00
	Note: Sensors must be ordered with the SCO option.	\$99.00



M-21

[www.intech.co.nz/m21](http://www.intech.co.nz/m21)

**NOTE**

For alkaline conditions between pH 7 ~ 13 use the -HT option.  
For conditions above pH 13 contact Intech.

<< Please refer to page 36 for our **pH-HR** data logger - ideal for use with these pH probes!  
(We recommend the probes that include the -Pt100 option for the best possible accuracy with the **LPI-pH** & **pH-HR**).

## pH Transmitter



- ◆ 4~20mA loop powered.
- ◆ LCD display.
- ◆ 2 kV isolation.
- ◆ 0.1% accuracy.
- ◆ 40~200mV output test signal.
- ◆ LED indication of loop current.
- ◆ IP67 enclosure.

MODEL	DESCRIPTION	PRICE
<b>LPI-pH</b>	<b>pH voltage to DC isolating transmitter with LCD display.</b> pH milli volt input and Pt100 temperature compensation. Slope and offset adjustments for on-site calibration.	\$738.00

[www.intech.co.nz/lpi-ph](http://www.intech.co.nz/lpi-ph)

	0	ACID H+				NEUTRAL 7				ALKALINE OH-				14	
pH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
mV at 25°C	+413							0							-413