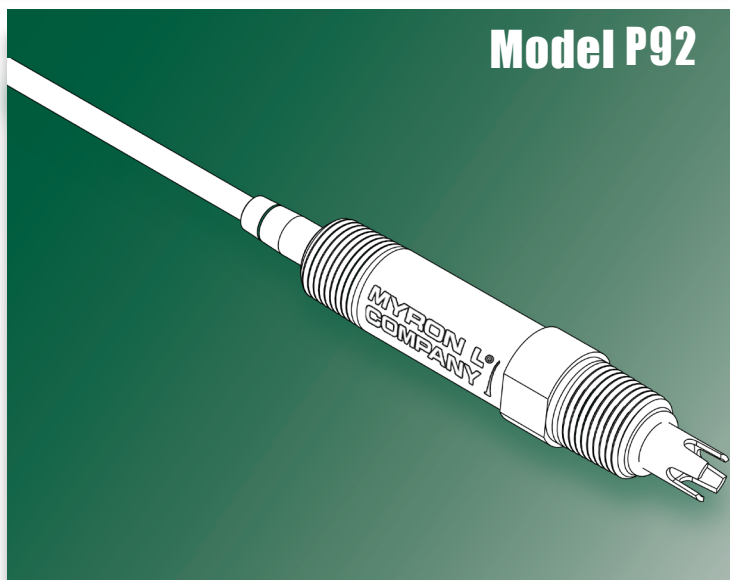


# pH SENSOR : P92

1/2 in. Preamplified pH Sensors for 900 Series Multi-Parameter Monitor / Controllers



**Model P92**

- **Built-in isolated preamp guarantees accurate, trouble-free operation.**
- **Sensor area is completely sealed to eliminate leaks<sup>1</sup>.**
- **Integrated PT1000 RTD for superior Temperature Compensation<sup>2</sup>.**
- **Sensor body made from Ryton® for excellent temperature and chemical durability.**

## **BENEFITS**

- **Superb Response Time.**
- **Double-Junction Reference Design.**
- **0-14 pH Range.**
- **Double-ended NPT for simple in-line or submersion installations, independent of mounting orientation.**

## **DESCRIPTION**

The Myron L® Company P92 sensor is designed to operate exclusively with the Myron L® Company 900 Series Multi-Parameter Monitor / Controller.

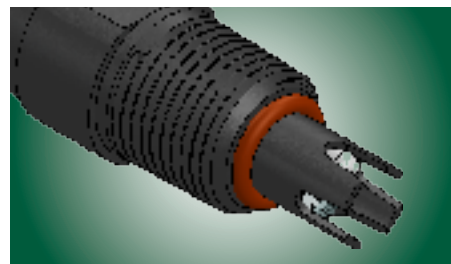
Each sensor has a built-in preamplifier that guarantees accurate measurements by eliminating ground-loop problems and reducing the effects of cable

capacitance and impedance. The P92 also includes an integral PT1000 RTD to facilitate fast, accurate Temperature Compensation (TC)<sup>2</sup>.

The P92 sensor body is made from durable Ryton® PPS (polyphenylene sulfide). Ryton combines excellent temperature tolerance with superb resistance to solvents and corrosive chemicals and has an inherent UL94 V-0 flammability rating without flame retardant additives. A double-ended, 1/2" fitting makes this sensor easy to install in-line.

Double-Junction Reference design means this sensor can withstand poisoning in more demanding applications. The external junction is made of

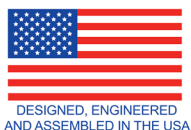
Pellon® for fast response time. The P92 works exceptionally well when measuring solutions with low ionic strength.



**P92 Sensor Tip Detail**

Standard cable length is 10ft. (3.05m) terminated with 6, tinned leads (5 signal; 1 shield). A separate 5-pin terminal block is included<sup>3</sup>.

**For more information please visit our website at [www.myronl.com](http://www.myronl.com)**



<sup>1</sup> Back seal of sensor body at cable exit is not water tight. DO NOT completely submerge sensor.

<sup>2</sup> Temperature compensation can be deactivated to meet USP (United States Pharmacopoeia) requirements.

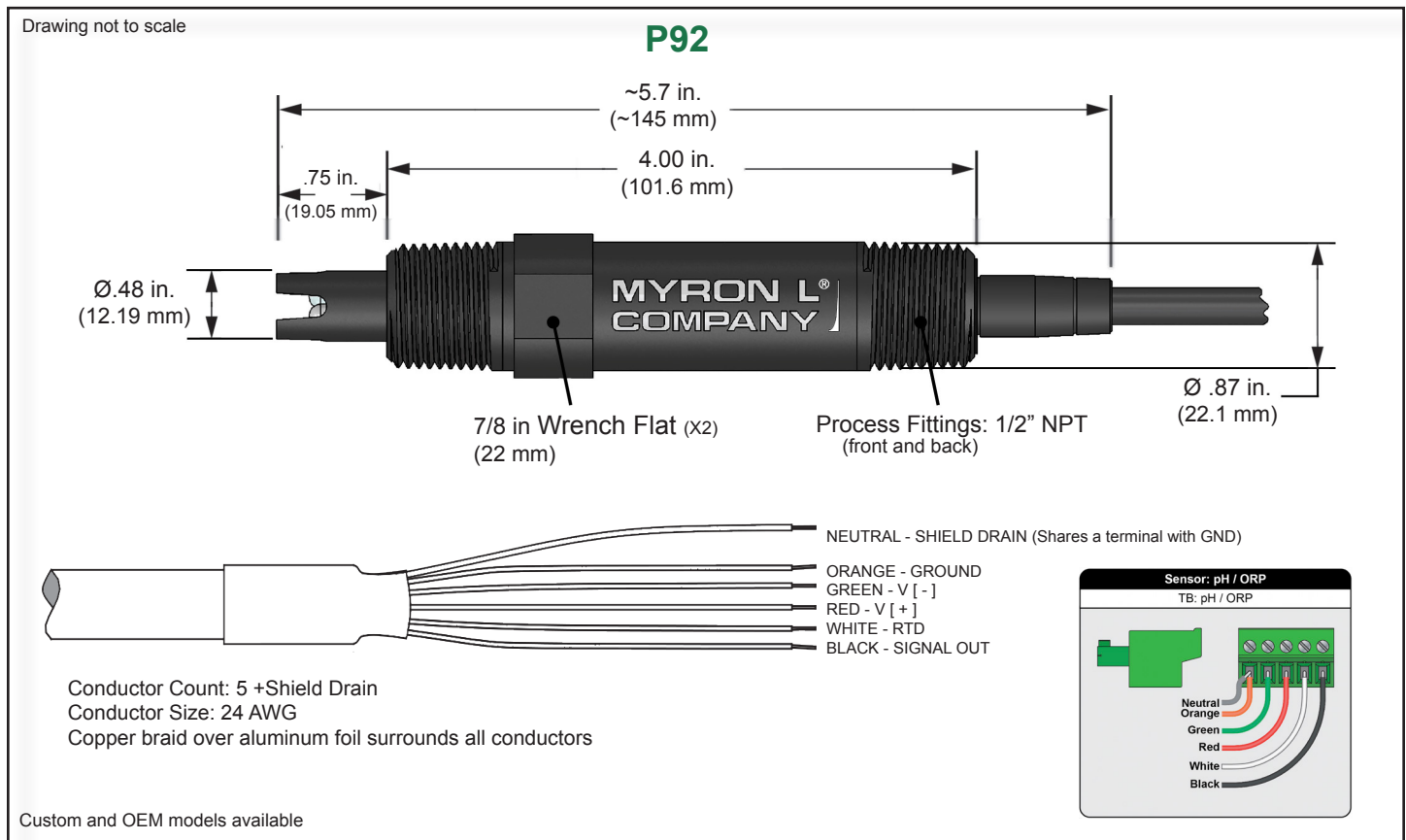
<sup>3</sup> Shield drain and sensor ground share a terminal.

## SPECIFICATIONS: P92

Measurement Range:	0 – 14 pH (sodium ion error above 12.3 pH)
Offset (ZERO):	7.00 ±0.2 pH
Span:	Better than 95% of theory
Ambient Temperature - Pressure:	0 – 80 °C (32 – 176 °F) <sup>1</sup> ; 0 – 100 PSIG (0 – 6.9 bar) <sup>1</sup> 80 °C (176 °F) @ 50 PSIG (3.5 bar) <sup>2</sup> 25 °C (77 °F) @ 100 PSIG (6.9 bar) <sup>2</sup>
Signal Conditioning:	Built-in preamplifier
Sensor Geometry:	Bulb
Reference Junction:	Double Junction: <b>Internal: Pellon®</b> <b>External: Pellon®</b>
Temperature Sensor:	PT1000 RTD
Sensor Body Material:	Ryton®
Physical Connection & Mounting:	1/2" NPT: <b>In-line:</b> May be installed in any orientation. <b>Immersion:</b> Requires a standpipe and coupler.
Electrical Connection (Standard):	10 ft. (3.05 m) long Shielded Cable: 24 AWG, 5 leads + Shield Drain Wire 5-pin Terminal Block Included.

<sup>1</sup> Temperature and pressure range for ambient environment and immersion installations. Derated limits apply.

<sup>2</sup> Maximum temperature and pressure for wetted sensor.



### LIMITED WARRANTY

All Myron L® Company pH Sensors have a Six (6) Month Limited Warranty. If sensor fails to function normally, return the unit to the factory prepaid. If, in the opinion of the factory, failure was due to materials or workmanship, repair or replacement will be made without charge. A reasonable service charge will be made for diagnosis or repairs due to normal wear, abuse or tampering. Warranty is limited to the repair or replacement of the sensor only. The Myron L® Company assumes no other responsibility or liability.

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### Built On Trust.

Founded in 1957, the Myron L® Company is one of the world's leading manufacturers of water quality instruments. Because of our commitment to product improvement, changes in design and specifications are possible. You have our assurance any changes will be guided by our product philosophy: accuracy, reliability, and simplicity.

