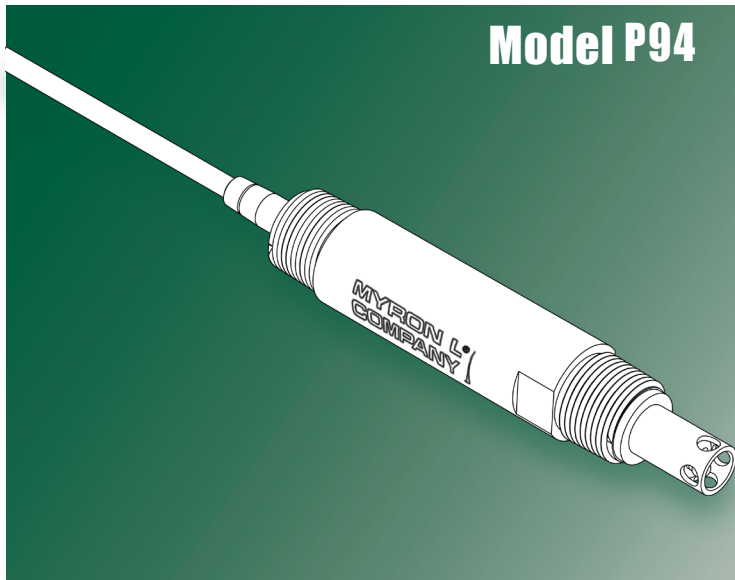


pH SENSORS: P94 & P94PE

3/4 in. Preamplified pH Sensors for 900 Series Multi-Parameter Monitor / Controllers



Model P94

- **Built-in isolated preamp guarantees accurate, trouble-free operation.**
- **Sensor area is completely sealed to eliminate leaks¹.**
- **Integrated PT1000 RTD for superior Temperature Compensation².**
- **Sensor bodies 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 installations, independent of mounting orientation.**

DESCRIPTION

The Myron L[®] Company P94 and P94PE pH sensors are designed to operate exclusively with the Myron L[®] Company 900 Series Multi-Parameter Monitor / Controller.

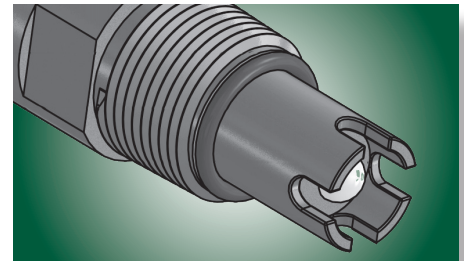
Each sensor has a built-in preamplifier that guarantees accurate measurements by eliminating ground-loop problems and reducing the effects of cable capacitance and impedance. They also include an integral PT1000 RTD to facilitate

fast, accurate Temperature Compensation (TC)².

Sensor bodies are 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, 3/4" NPT fitting makes these sensors easy to install in-line.

Double-Junction Reference design means these sensors can withstand poisoning in more demanding applications. The external junction can be either Pellon[®] for applications requiring faster response time, or polyethylene (order model P94PE), for harsher industrial environments where

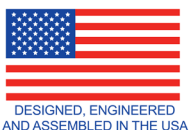
contamination of the junction is a concern. Both versions work exceptionally well when measuring solutions with low ionic strength.



P94PE 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 included³.

For more information please visit our website at www.myronl.com



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

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

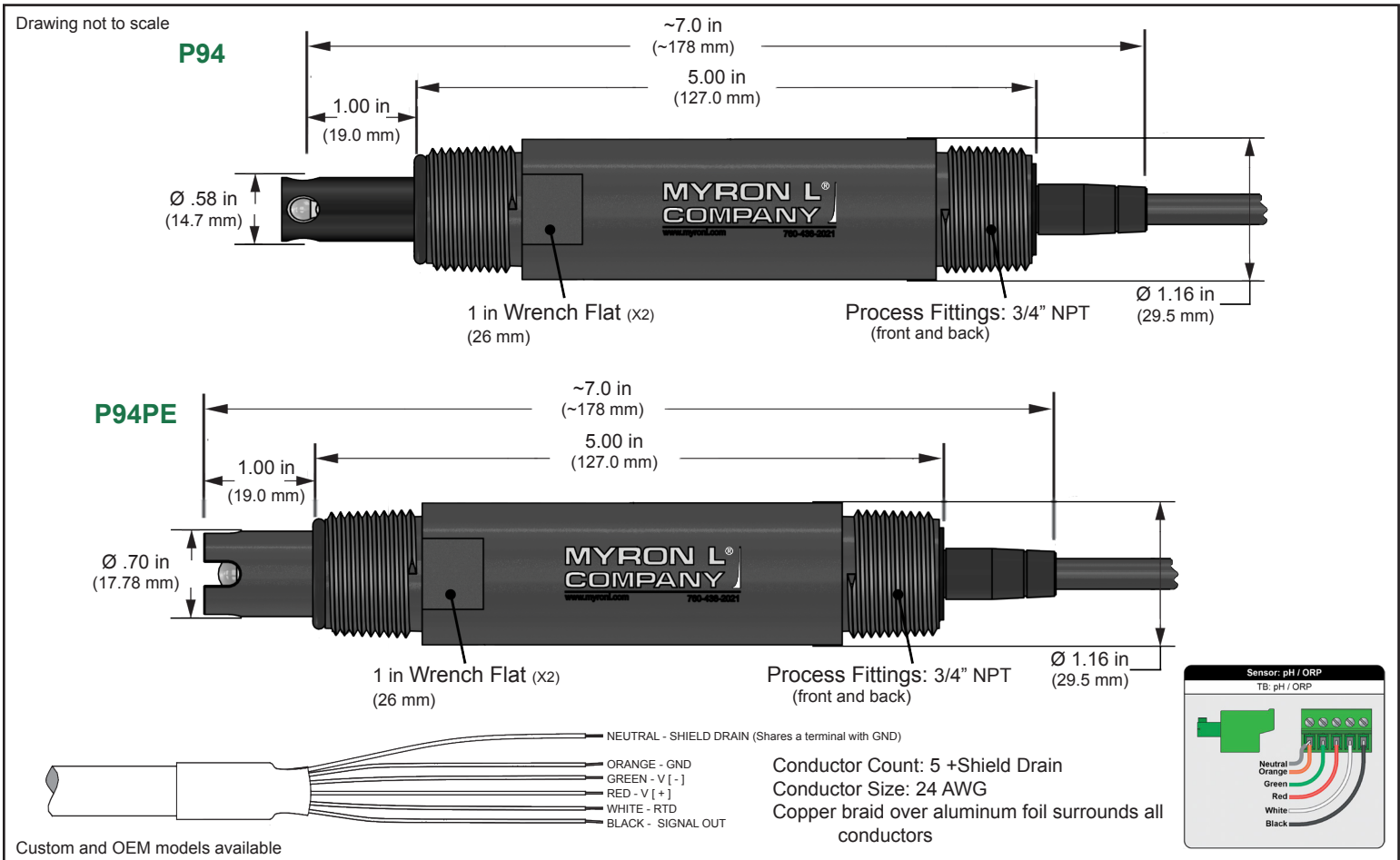
³ Shield Drain and sensor ground share a terminal.

SPECIFICATIONS: P94 & P94PE

| Model: | P94 | P94PE |
|-----------------------------------|--|--|
| Measurement Range: | 0 – 14 pH (sodium ion error above 12.3 pH) | 0 – 14 pH (sodium ion error above 12.3 pH) |
| Offset (ZERO): | 7.00 ± 0.2 pH | 7.00 ± 0.2 pH |
| Span: | Better than 95% of theory | Better than 95% of theory |
| Ambient Temperature - Pressure: | 0 – 80 °C (32 – 176 °F) ¹ ; 0 – 100 PSIG (0 – 6.9 bar) ¹ 80 °C (176 °F) @ 50 PSIG (3.5 bar) ² 25 °C (77 °F) @ 100 PSIG (6.9 bar) ² | 0 – 80 °C (32 – 176 °F) ¹ ; 0 – 100 PSIG (0 – 6.9 bar) ¹ 80 °C (176 °F) @ 50 PSIG (3.5 bar) ² 25 °C (77 °F) @ 100 PSIG (6.9 bar) ² |
| Signal Conditioning: | Built-in preamplifier | Built-in preamplifier |
| Sensor Geometry: | Bulb | Hemisphere |
| Reference Junction: | Double Junction: Internal: Pellon® External: Pellon® | Double Junction: Internal: Pellon® External: Polyethylene |
| Temperature Sensor: | PT1000 RTD | PT1000 RTD |
| Sensor Body Material: | Ryton® | Ryton® |
| Physical Connection & Mounting: | 3/4" NPT: In-line: May be installed in any orientation Immersion: Requires a standpipe & coupler | 3/4" NPT: In-line: May be installed in any orientation Immersion: Requires a standpipe & coupler. |
| Electrical Connection (Standard): | 10 ft. (3.05 m) long Shielded Cable: 24 AWG, 5 leads + Shield Drain Wire. 5-pin Terminal Block Included. | 10 ft. (3.05 m) long Shielded Cable: 24 AWG, 5 leads + Shield Drain Wire. 5-pin Terminal Block Included. |

¹ Temperature and pressure range for ambient environment and immersion installations. Derated limits apply.

² 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.

2450 Impala Drive
Carlsbad, CA 92010-7226 USA
Tel: +1-760-438-2021
Fax: +1-800-869-7668 / +1-760-931-9189
www.myronl.com

Printed in the USA

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.

