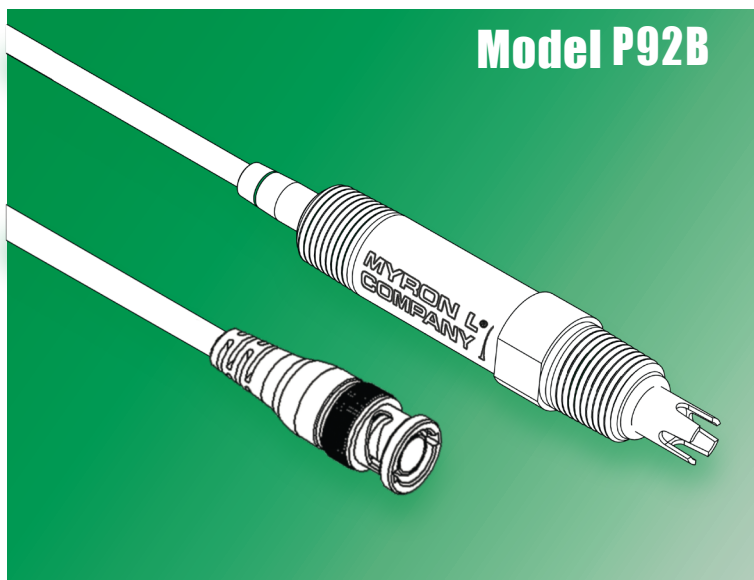


# pH SENSORS: P92B & P94BPE

BNC Terminated pH Sensors for 900 Series Multi-Parameter Monitor / Controllers



## Model P92B

- Sensor area is completely sealed to eliminate leaks<sup>1</sup>.
- Sensor bodies made from Ryton® for excellent temperature and chemical durability.
- Compatible with any pH monitor or meter equipped with a BNC connector.

## BENEFITS

- **Superb Response Time.**
- **Double-Junction Reference Design.**
- **0-14 pH Range.**
- **Double-ended NPT for simple in-line installations.**

## DESCRIPTION

The Myron L® Company P92B and P94BPE pH sensors are designed to connect to the BNC input of the Myron L® Company 900 Series Multi-Parameter Monitor / Controller.

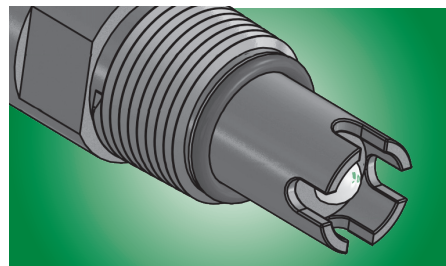
Sensor bodies are made from durable Ryton® PPS (polyphenylene sulfide). Ryton combines excellent temperature tolerance with superb resistance to solvents and corrosive chemicals and has an inherent

UL94 V-0 flammability rating without flame retardant additives. A double-ended, 1/2" (P92B) or 3/4" (P94BPE) NPT fitting makes these sensors easy to install in-line. The P94PE may be installed in-line, independent of mounting orientation<sup>2</sup>.

Double-Junction Reference design means these sensors are perfect for more demanding applications. The external junction can be either Pellon® for applications requiring faster response time, or polyethylene (order model P94BPE), for harsher industrial environments where contamination of the junction is a concern.

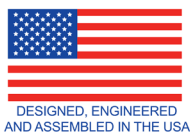
Both versions work exceptionally well when measuring solutions with low ionic strength.

Standard cable length is 10ft. (3.05m). The sensor's BNC connector is compatible with any high input-impedance, pH meter or monitor equipped to accept a BNC connector.



*P94BPE Sensor Tip Detail*

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



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

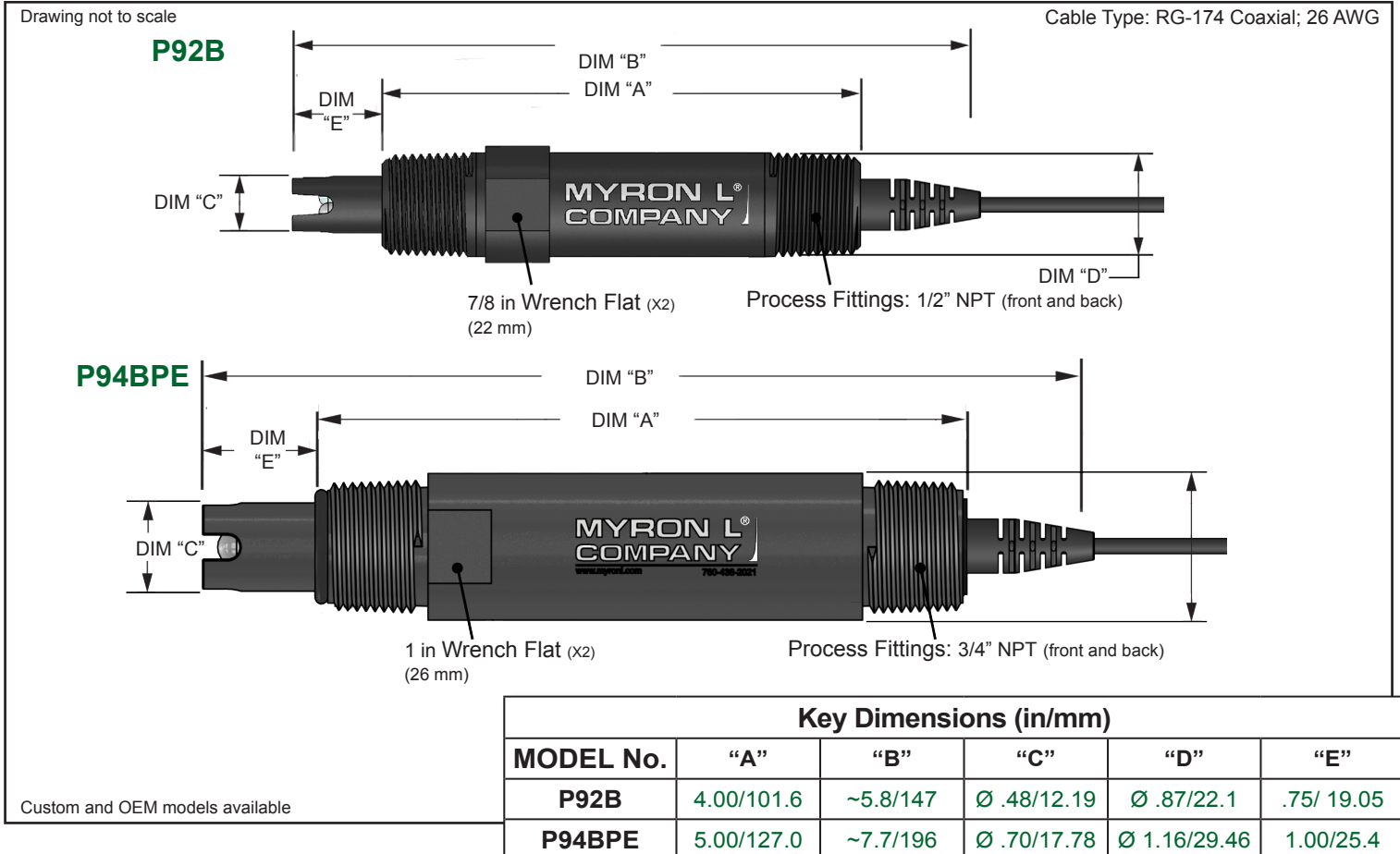
<sup>2</sup> Model P92B, BNC style pH sensor should only be installed in the base of a "T" fitting and at a 0° to 45° angle.

## SPECIFICATIONS: P92B & P94BPE

| Model:                            | P92B   | P94BPE   |
|-----------------------------------|--|--|
| 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) <sup>1</sup> ; 0 – 100 PSIG (0 – 6.9 bar) <sup>1</sup><br>80 °C (176 °F) @ 50 PSIG (3.5 bar) <sup>2</sup><br>25 °C (77 °F) @ 100 PSIG (6.9 bar) <sup>2</sup> | 0 – 80 °C (32 – 176 °F) <sup>1</sup> ; 0 – 100 PSIG (0 – 6.9 bar) <sup>1</sup><br>80 °C (176 °F) @ 50 PSIG (3.5 bar) <sup>2</sup><br>25 °C (77 °F) @ 100 PSIG (6.9 bar) <sup>2</sup> |
| Signal Conditioning:              | NONE   | NONE   |
| Sensor Geometry:                  | Bulb   | Hemisphere   |
| Reference Junction:               | Double Junction: Internal: Pellon®<br>External: Pellon®  | Double Junction: Internal: Pellon®<br>External: Polyethylene   |
| Temperature Sensor:               | NONE   | NONE   |
| Sensor Body Material:             | Ryton®   | Ryton®   |
| Physical Connection & Mounting:   | 1/2" NPT: Only install in the base of a "T" fitting, sensor downward at a 0° to 45° angle.   | 3/4" NPT: In-line: May be installed in any orientation<br>Immersion: Requires a standpipe & coupler.   |
| Electrical Connection (Standard): | 10 ft. (3.05 m) Shielded Cable: Standard BNC connector   | 10 ft. (3.05 m) Shielded Cable: Standard BNC connector   |

<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.

