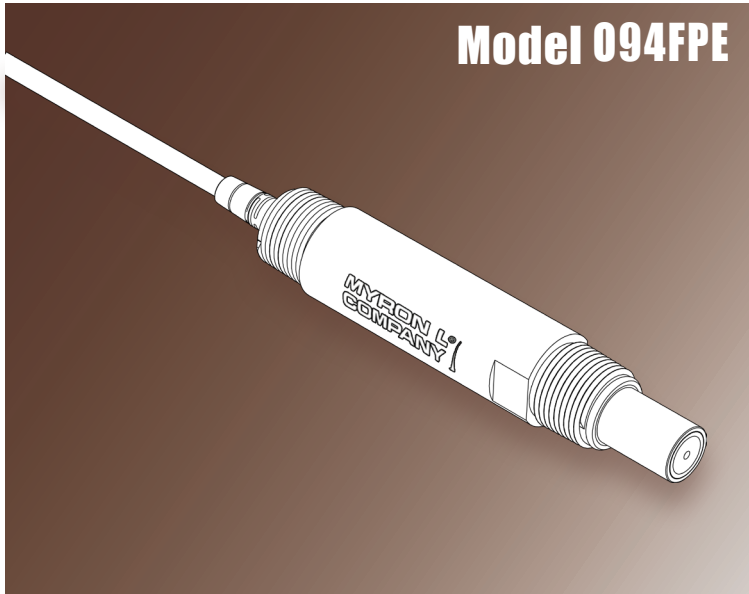


# ORP SENSOR: 094FPE

Heavy-Duty, Preamplified ORP Sensors for 900 Series Multi-Parameter Monitor / Controllers



## Model 094FPE

- Heavy duty, flat-tip sensor design resists fouling and abrasion.
- Built-in isolated preamp guarantees accurate, trouble free operation.
- Sensor body made from Ryton® for excellent temperature and chemical durability.
- Platinum ORP electrode.

## BENEFITS

- **Superb Response Time.**
- **Double-Junction Reference Design.**
- **Sensor area is completely sealed to eliminate leaks<sup>1</sup>.**
- **± 2000 mV Range.**
- **Double-ended NPT for simple in-line or submersion installations, independent of mounting orientation.**

## DESCRIPTION

Myron L® Company O94FPE ORP sensors are designed to operate exclusively with Myron L® Company's 900 Series Multi-Parameter Monitor / Controller.

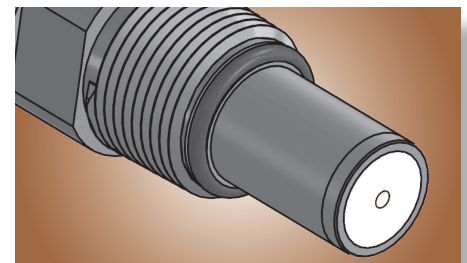
Each sensor has a built-in preamplifier that guarantees accurate measurements by eliminating ground-loop problems and reducing the effects of cable capacitance and impedance.

The P94FPE 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, 3/4" NPT fitting makes this sensor easy to install in-line.

Double-Junction Reference design means this sensor is perfect for more demanding applications. Because the external junction is made from polyethylene the O94FPE is perfect for harsher industrial environments where contamination of the junction is a concern. It works exceptionally well when measuring solutions with low ionic strength.

The O94FPE sensor uses a flat tip design that stays cleaner and resists damage better than the classic tip design when exposed to

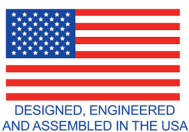
abrasive and/or oily solutions. It is an excellent choice for more demanding applications, such as wastewater management, or when measuring the ORP of non-aqueous solutions.



O94FPE 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 included<sup>2</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.

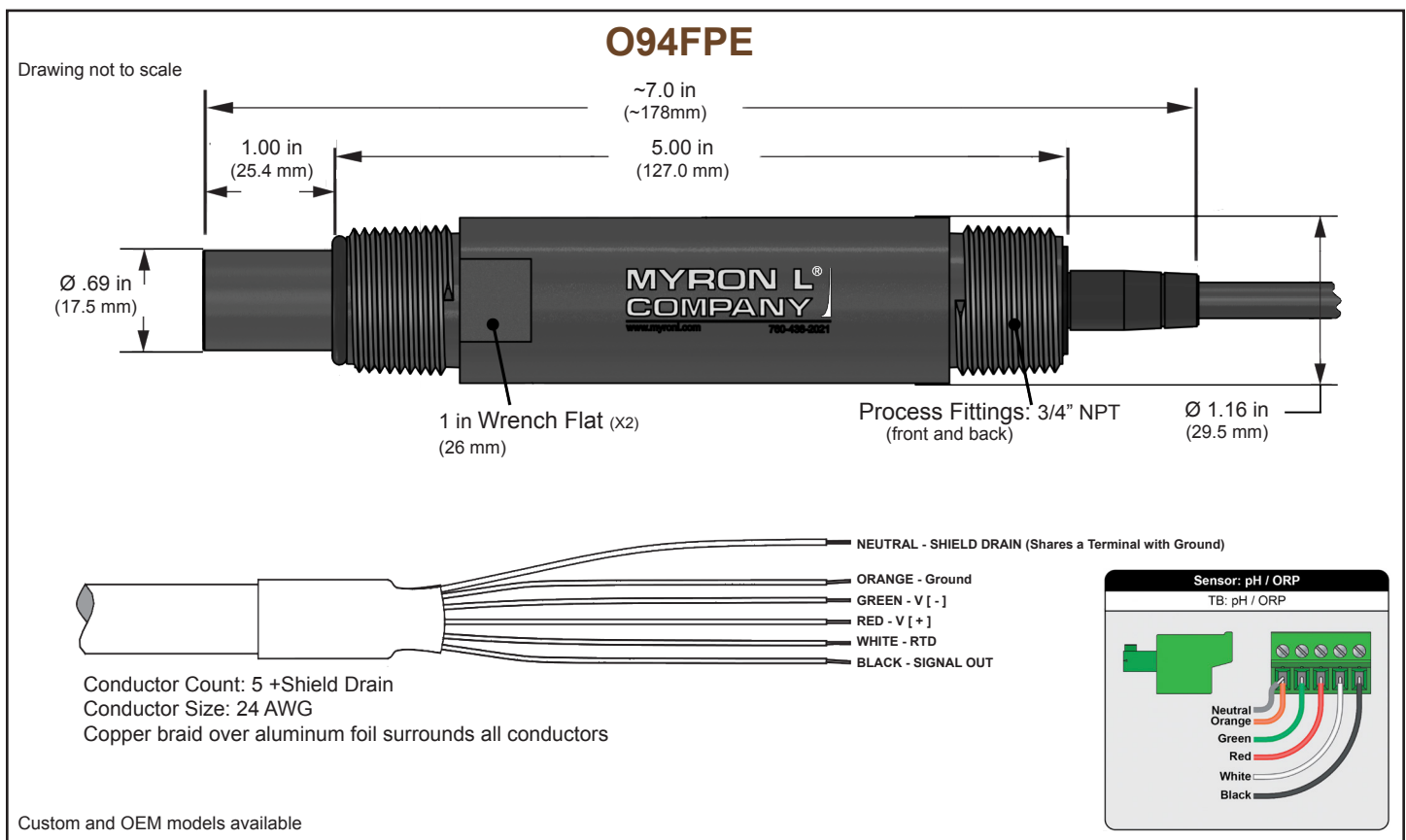
<sup>2</sup> Shield drain and sensor ground share a terminal.

## SPECIFICATIONS: O94FPE

Measurement Range:	± 2000 mV
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 Material:	Platinum
Sensor Geometry:	Flat Tip
Reference Junction:	Double Junction: <b>Internal:</b> Pellon® <b>External:</b> Polyethylene
Temperature Sensor:	NONE
Sensor Body Material:	Ryton®
Physical Connection & Mounting:	3/4" 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<sup>®</sup> Company ORP 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<sup>®</sup> Company assumes no other responsibility or liability.

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### Built On Trust.

Founded in 1957, the Myron L<sup>®</sup> 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.

