

## WQ415 INDUSTRIAL DISSOLVED OXYGEN TRANSMITTER



- Isolated 4-20 ma output -- operates down to 7 volts
- 316SS and PVDF construction
- 'True' 2-wire operation
- Automatic temperature compensation
- Auto-polarity correction
- Optional, independent temperature output (0 to 50 C°)
- Small, 19 mm (3/4") diameter -- ideal for wells
- Comes with 10 meter cable (33 feet) -- rated for continuous submersion and burial

### Description

The Dissolved Oxygen transmitter has an integrated preamp and an isolated 'true 2-wire', 4-20 ma transmitter. Two independent channels can simultaneously transmit a Dissolved Oxygen and optional temperature signal -- two wires for the Dissolved Oxygen transmitter and two wires for the temperature transmitter. The compact design and the 316SS and PVDF construction make the rugged Dissolved Oxygen sensor/transmitter ideal for applications such as process control, data acquisition, wastewater treatment, and, groundwater monitoring. The Dissolved Oxygen transmitters can be submersed to 200 feet (approximately 100 psi). Individual Dissolved Oxygen transmitters can be combined to make redundant or multiparameter modules using a unique connector system. This system also allows for the Dissolved Oxygen transmitters to be used in in-line (insertion) applications without fear of blow-out. The Dissolved Oxygen sensor/transmitters are designed with 'ease of service' as a primary goal.

### Specifications

*Output:* 4-20 mA  
*Range:* 0-20 mg/l  
*Operating Voltage:* 7-40 VDC  
*Loop Impedance:*  
 250 ohms at 12 VDC  
 850 ohms at 24 VDC  
 1650 ohms at 40 VDC

*Isolation:* 600 vdc, >70 db at 50/60 hz  
*Linearity:* ±0.5% of full scale  
*Accuracy:* ±2.0% of full scale  
*Sensitivity:* ±0.05% of full scale  
*Stability:* ±2.0% of full scale  
*Repeatability:* ±1.0% of full scale  
*Electrode type:* galvanic, disposable 18 month typical life  
*Temperature compensation:* automatic, 0-50 C°  
*Maximum Pressure:* 100 PSI  
*Response Time:* (including electrodes) 98% < 60 seconds  
*Size of Probe:* 19 mm (0.750 in.) max diameter x 343 mm (13.5 in.)  
*Weight:* 1 lb.  
*Wetted materials:* 316 ss, PVDF, Viton, glass

### Price List

**WQ415**  
 Industrial Dissolved Oxygen Transmitter.....\$ 890

**Extra Cable**  
 Standard industrial conductivity sensors include 33' of cable, but can be purchased with up to 1000' of cable.....\$1.50/ft

**Temperature Output Option**  
 Range: 0-50 C°, Accuracy: ±1 C°.....\$200

**In Line Insertion Fitting**  
 Reversible 316 SS fitting for insertion or submersion with Teflon seals, 3/4" MNPT, includes anti-blowout ring for safety.....\$125



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