

## WQ325 INDUSTRIAL 4 ELECTRODE CONDUCTIVITY TRANSMITTER



- 4-electrode measurement technique -- self compensating
- Ranges from 5,000 uS to 100,000 uS -- ideal for seawater incursion studies
- Isolated 4-20 ma output -- operates down to 7 volts
- 316SS and PVDF construction
- Patented connector system -- allows for 'two-turn' cable and sensor assembly
- '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

### Description

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



### Specifications

*Output:* 4-20 mA  
*Range:* 0-5,000, 0-10,000, 0-20,000, 0-50,000, 0-100,000 Micro Siemens (micro mhos) per cm  
*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:* ±1% of full scale  
*Accuracy:* ±1% of full scale  
*Sensitivity:* ±0.05% of full scale  
*Stability:* ±0.1% of full scale  
*Repeatability:* ±0.1% of full scale  
*Electrode type:* contacting  
*Temperature compensation:* automatic, 0-50 C°  
*Maximum Pressure:* 100 PSI  
*Response Time:* (including electrodes) 90% < 5 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

### Price List

#### WQ325 Industrial 4 Electrode Conductivity Sensor

Specify conductivity sensor range when ordering: 0-5,000, 0-10,000, 0-20,000, 0-50,000, 0-100,000 Micro Siemens (micro mhos).....\$ 830

#### 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

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