

WQ315 INDUSTRIAL CONDUCTIVITY TRANSMITTER



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.



- 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

Specifications

Output: 4-20 mA
Range: 0-100, 0-200, 0-500, 0-1,000, 0-2,000 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: $\pm 1\%$ of full scale
Accuracy: $\pm 1\%$ of full scale
Sensitivity: $\pm 0.05\%$ of full scale
Stability: $\pm 0.1\%$ of full scale
Repeatability: $\pm 0.1\%$ 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

WQ315 Industrial Conductivity Sensor

Specify conductivity sensor range when ordering: 0-100, 0-200, 0-500, 0-1,000, 0-2,000 Micro Siemens (micro mhos).....\$ 730

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

PC300

Process control meter and industrial control system..... \$795



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