Corrosion Sensor

LPR Corrosion Sensor

for WCT900 and Intuition-9 Series Controllers

Cost effective and reliable solution to your corrosion monitoring and controlling needs.

Each card provides two *Linear Polarization Resistance (LPR) sensor Inputs* to measure or control the corrosion rate and corrosion imbalance (pitting) of two different alloys in the cooling tower.

The sensor uses standard 5 cm^2 surface area electrodes.

KEY BENEFITS

- Reliable 4-wire design
- Corrosion rate and imbalance
- Dual corrosion sensor input
- Automatically measures conductivity and compensates for it each cycle
- Able to set a control delay during the initial stabilization time
- Automatic electrode replacement reminder
- Self-Diagnostics eliminates the need for Test Probe Simulator
- Disturbance Control Algorithms that take advantage of the corrosion signal
  - Target PPM mode with Disturbance
  - Adjusts the target PPM higher if corrosion increases
- On/Off Disturbance mode
 - Adjusts the inhibitor (PTSA) concentration higher if corrosion increases

About Us

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market. Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: www.walchem.com.
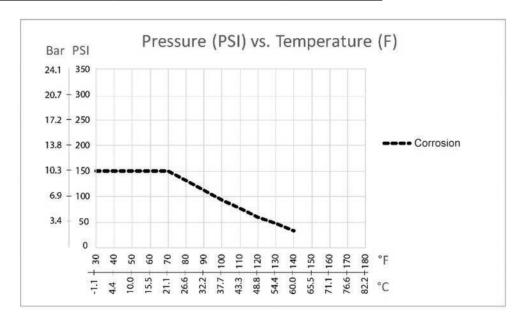
W A L C H E M

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SPECIFICATIONS

MEASUREMENT PERFORANCE

Range	Resolution
0-2 mpy or mm/year	0.001 mpy or mm/year
0-20 mpy or mm/year	0.01 mpy or mm/year
0-200 mpy or mm/year	0.1 mpy or mm/year

MECHANICAL

Pressure (see graph)	0-150 psi (0-10 bar)	
Temperature (see graph)	32-158°F (0-70 °C)	
Fitting Process Connection	3/4" NPTM mounting fitting	
Electrode Material	Sold separately	
Body Material	Glass filled reinforced Polypropylene	
O-Ring Material	FKM	
Maximum Cable length	100 feet (30 m)	
Standard Cable length	3 feet (1m)	20 feet (6 m)

Pressure (PSI) vs. Temperature (F)

ORDERING INFORMATION

191951-06	Sensor/Mounting Fitting, Corrosion, 6 ft.
191951-20	Sensor/Mounting Fitting, Corrosion, 20 ft.
191935-06	Sensor, Corrosion, 6 FT
191935-20	Sensor, Corrosion, 20 FT
104203	Mounting Fitting, Corrosion, 3/4"
103787	Corrosion electrode tips, carbon steel (pair)
103788	Corrosion electrode tips, copper (pair)
103789	Corrosion electrode tips, brass (pair)

Refer to the W900 or Intuition-9 brochure for the model codes that include the dual corrosion sensor input card and sensor options O and R (single and dual sensors, electrode tips purchased separately).

WALCHEM

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