

Model 140 Chlorine Sensor Model 141 Trace Chlorine Sensor

Features

- Measure Free Chlorine as HOCl from 0.01 to 5 mg/l
- Up to 12 Months Electrolyte Life
- Typical Calibration Cycles from 1 to 4 Months
- Compatible with NaOCl, Ca(OCl)₂, Cl₂ and Electrolytically Generated Chlorine Agents
- Convenient Replaceable Membrane Cap
- Compact Design

Applications

- Potable Water
- Cooling Water
- Reverse Osmosis
- Food Processing
- Swimming Pools
- Dechlorination



Description

The Models 140 and 141 Chlorine Sensors are amperometric sensors having a gold cathode and silver/silver chloride anode with a rugged PTFE membrane. When the sensor is immersed in chlorinated water, chlorine diffuses through the PTFE membrane. Chlorine molecules are reduced at the gold cathode and silver is oxidized to silver chloride at the anode. The resulting current is a direct measurement of the concentration of free chlorine in the process.

Specifications

| | | | |
|-------------------------------|---------------------------------|--|--|
| Measuring Range Model 140 | Measuring Range Model 141 | 0.05 to 20 mg/l | 0.01 to 5 mg/l |
| Response Time Upscale | Response Time Downscale | 90% < 2 min., 99% < 5 min. | 90% < 0.5 min, 99% < 3 min. |
| Polarization Time Model 140 | Polarization Time Model 141 | 1st Polarization in 30 min, 2nd in 10 min. | 1st Polarization in 90 min, 2nd in 45 min. |
| Minimum Flow Velocity | Minimum Flow Rate for Flow Cell | 15 cm/sec (0.5 ft/sec) | 30 l/h (8.0 gal/h) |
| Operating Current Model 140 | Operating Current Model 141 | 25 nA per mg Cl ₂ /l @ 25oC (77oF) and 7.2 pH | 80 nA per mg Cl ₂ /l @ 25oC (77oF) and 7.2 pH |
| pH Range | | 4 to 8 pH | |
| Temperature Sensor | | NTC 10K @ 25oC | |
| Temperature Rating | | 10 to 45oC (50 to 113oF) | |
| Pressure Rating | | 1 bar (14.5 psi) | |
| Enclosure Rating (Waterproof) | | IP68 | |
| Average Life Electrolyte | | 12 months | |



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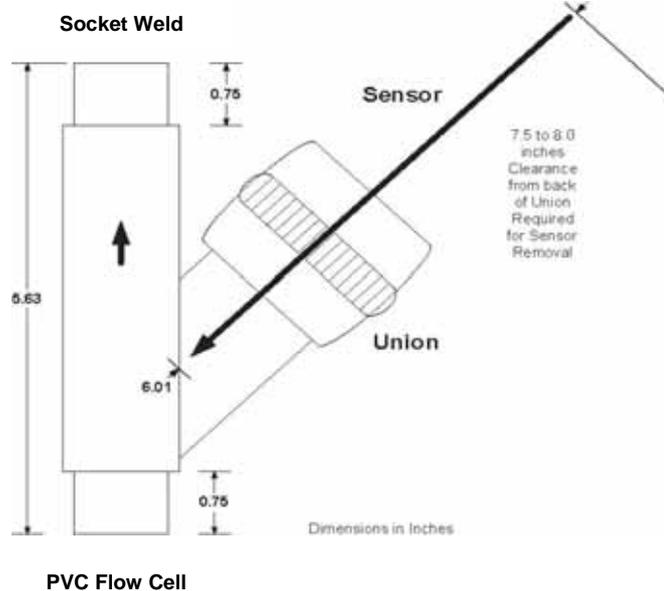
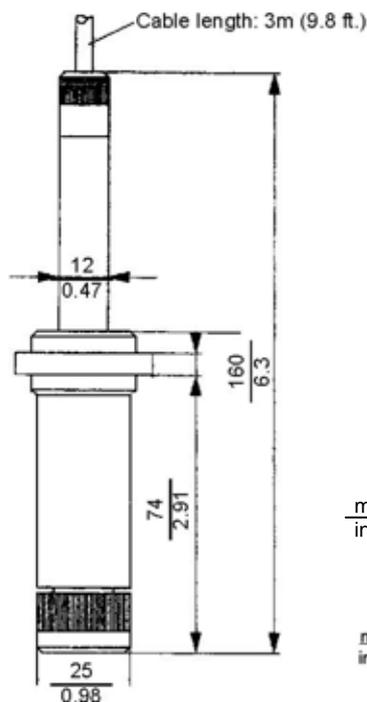
Ordering Information

| Model | Description |
|--------------------|--|
| M - 140 | Chlorine Sensor, Range 0.05 to 20 mg/l |
| M - 141 | Trace Chlorine Sensor, 0.01 to 5 mg/l |
| Code | Description |
| A | Without Temperature Compensation |
| N | With Temperature Compensation |
| M - 140 - A | Order Number Example |

Accessories

| Order Number | Description |
|--------------|-------------------------------------|
| 50028447 | PVC Flow Assembly |
| 50005255 | Two Replacement Membrane Cartridges |
| 50005256 | Electrolyte Refill, 50 ml |

Dimensions:



Kontaktinformationer:

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