The **AQ700 Sonde** from Teledyne Isco comprises up to six different sensors in a single sonde, for a total of ten possible measured parameters. Depending on your monitoring requirements, the AQ700 can operate with any of the following Teledyne Isco instruments:

- 6712 Series Samplers
- Avalanche® Portable Refrigerated Sampler
- Signature® Flow Meter
- 2105 Interface Module

All AQ700 data stored by the sampler or logger is ready for retrieval, reporting, and graphing using Teledyne Isco Flowlink® software.

**Monitoring Applications**

- Storm water runoff
- Aquifers
- Aqua culture
- Surface water
- Watershed /TMDL

**Standard Features**

- Simultaneous monitoring of up to ten water quality parameters
- USB Cable and AQ700 PC software for configuration and calibration
- Real-time data displayed on your sampler or flow meter screen, or PC
- LED Lights indicate operating status for easy diagnostics
- Calibration record stored in an internal permanent file
- Cables available in 3 different lengths: 5, 10, and 15 meters
- pH Reference electrode can be rebuilt
- Turbidity sensor w/ built-in wiper to prevent fouling (Model AQ703)
- 2-Year warranty

Scrolling parameter data in AQ700 software
# AQ700 Multi-Parameter Sonde: Technical Specifications

<table>
<thead>
<tr>
<th>Dimensions (w/ weighted sensor guard)</th>
<th>16&quot; (40.64 cm))</th>
<th>1.95&quot; (4.95 cm)</th>
<th>2.95&quot; (7.49&quot; cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (w/ weighted sensor guard)</td>
<td>In air 2.6 lbs (1.18 kg); In water 1.6 lbs (0.7 kg)</td>
<td>In air 5.2 lbs (2.3 kg); In water 1.2 lbs (1.45 kg)</td>
<td></td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>PVC, 316 SST, Acetal, Polycarbonate, PTFE, Viton, Glass, Graphite, Silicone, Urethane, Platinum, Acrylic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating: 23 to 122 °F (-5 to 50 °C); Storage: 14 to 122 °F (-10 to 50 °C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>12VDC Supplied by connected sampler or flow meter, or USB connection to computer</td>
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<td></td>
</tr>
<tr>
<td>Communication</td>
<td>SDI-12 Protocol and RS-232</td>
<td></td>
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</tbody>
</table>

## Sensors

### Temperature
- Measurement range: -5 to 50 °C (23 to 122 °F)
- Resolution: 0.01 °C (0.01 °F)
- Accuracy: ±0.1 °C

### Optical Dissolved Oxygen (DO)
(Alternative parameter: % Saturation)
- Compensated for temperature and salinity.
- Measurement range: 0 to 20 mg/L
- Resolution: 0.01 mg/L
- Linearity: ±0.2 mg/L

### Conductivity
- Specific Conductance corrected for temperature.
- Measurement range: 0 to 100,000 µS/cm
  - Resolution: 0.1 µS/cm (0 - 999.9)
  - 1 µS/cm (1000 to 9,999)
  - 10 µS/cm (10,000 to 99,990)
- Linearity: ±1% of reading ±1 µS/cm

### pH
- Corrected for temperature.
- Measurement range: 0 to 14 pH units
- Resolution: 0.01 pH units
- Linearity: ±0.2 pH units

### Oxidation Reduction Potential (ORP)
- Measurement range: -999 to 999 mV
- Resolution: 1 mV
- Linearity: ±20 mV

### Depth
- Measurement range: 0 to 15 m (0 to 49 ft)
- Resolution: 0.01 m (0.01 ft)
- Linearity: ±0.05 m

### Turbidity
- Measurement range: 0 to 3,000 NTU
  - Resolution: 0.1 (0 - 999.9 NTU)
  - 1 (1000 to 3000 NTU)
- Linearity: ±2% of reading ± 2 NTU

## Ordering Information

<table>
<thead>
<tr>
<th>Kit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ702 Kit</td>
<td>60-0603-302 Temperature Sensor</td>
</tr>
<tr>
<td></td>
<td>Conductivity Sensor</td>
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<tr>
<td></td>
<td>Reference Electrode</td>
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<tr>
<td></td>
<td>pH/ORP Sensor</td>
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<tr>
<td></td>
<td>Maintenance kit</td>
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<tr>
<td></td>
<td>Calibration cup</td>
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<td></td>
<td>Weighted sensor guard</td>
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<tr>
<td></td>
<td>Computer cable</td>
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<tr>
<td></td>
<td>USB Converter</td>
</tr>
<tr>
<td></td>
<td>AQ700 software</td>
</tr>
<tr>
<td>AQ703 Kit</td>
<td>60-0603-303 Includes everything in the AQ702 kit, plus:</td>
</tr>
<tr>
<td></td>
<td>Turbidity sensor w/ wiper</td>
</tr>
<tr>
<td>Field cablea</td>
<td></td>
</tr>
<tr>
<td>AQ700 SDI-12 convertera</td>
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</tr>
</tbody>
</table>

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a. Sold separately.

b. Accuracy range dependent on calibration point.