

AQ700

Water Quality Multi-Parameter Sonde

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



1.00	5.02	0.35	1.7	77	1.3	4.99	9.09
Temp deg C	pH units	Depth ft	SpCond uS/cm	ORP mV	Turb NTU	CablePower V	HDO mg/l
0.98	5.04	0.35	1.7	74	1.3	4.97	9.09
0.95	4.99	0.35	1.7	75	1.2		
0.94	5.02	0.35	1.7	76	1.3		
0.92	5.05	0.35	1.7	73	1.3		
0.91	5.07	0.36	1.7	72	1.4		
0.89	5.07	0.36	1.7	71	1.7		
0.86	5.09	0.35	1.7	70	1.5		
0.83	5.11	0.35	1.7	69	1.3		
0.80	5.11	0.35	1.7	68	1.7		
0.77	5.03	0.35	1.7	70	1.5		
0.75	5.02	0.35	1.7	73	1.3		

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Scrolling parameter data in AQ700 software

AQ700 Multi-Parameter Sonde: Technical Specifications

Dimensions (w/ weighted sensor guard) Length Model AQ702 Diameter Model AQ703 Diameter	16 " (40.64 cm)) 1.95 " (4.95 cm) 2.95 " (7.49" cm)
Weight (w/ weighted sensor guard) Model AQ702 Model AQ703	In air 2.6 lbs (1.18 kg); In water 1.6 lbs (0.7 kg) In air 5.2 lbs (2.3 kg); In water 1.2 lbs (1.45 kg)
Wetted Materials	PVC, 316 SST, Acetal, Polycarbonate, PTFE, Viton, Glass, Graphite, Silicone, Urethane, Platinum, Acrylic
Temperature	Operating: 23 to 122 °F (-5 to 50 °C); Storage: 14 to 122 °F (-10 to 50 °C)
Power	12VDC Supplied by connected sampler or flow meter, or USB connection to computer
Communication	SDI-12 Protocol and RS-232

Sensors		Ordering Information
Temperature	Measurement range: -5 to 50 °C (23 to 122 °F) Resolution: 0.01 °C (0.01 °F) Accuracy: ±0.1 °C	<p>AQ702 Kit 60-0603-302 Temperature Sensor Conductivity Sensor Reference Electrode pH/ORP Sensor Depth Sensor Optical DO Sensor (Hamilton) Maintenance kit Calibration cup Weighted sensor guard Computer cable USB Converter AQ700 software</p> <p>AQ703 Kit 60-0603-303 Includes everything in the AQ702 kit, plus: Turbidity sensor w/ wiper</p> <p>Field cable^a AQ700 SDI-12 converter^a</p>
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 ^b	
Additional Parameters: Salinity, Total Dissolved Solids (TDS)		
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 ^b	



a. Sold separately.

b. Accuracy range dependent on calibration point.