

CONDUCTIVITY PROBE

CON1000A / CON1000L



FEATURES & BENEFITS

- Affordable real-time conductivity and salinity monitoring
- Range for wastewater to high purity applications
- Operator friendly, low maintenance design
- Ultra-low power requirements
- Simple to install and easy to operate
- Four electrodes technology
- Robust and compact design

MUNICIPAL DRINKING WATER
MUNICIPAL WASTEWATER
COASTAL WATER
INDUSTRIAL WASTEWATER

WATER QUALITY
MONITORING
SOLUTIONS

REAL-TIME MONITORING SOLUTION

Conductivity Probe

Real Tech's Conductivity sensor provides rapid real-time measurement of conductivity and salinity in water or wastewater. This compact and robust sensor is available as a submersible probe for open channel wastewater installations or as a bypass style sensor for pressurized water installations.

Controllers and Accessories

Our innovative modular product platform ensures our clients gain the real-time water quality monitoring system that meets their specific demands and budget. With multiple sensor, controller and accessory options available, Real Tech provides a total solution for all of your unique water quality needs.

Liquid Ai Compatible

Our Liquid Ai data services complement our real-time water quality monitoring systems. Our Remote Monitoring platform is a powerful data management and visualization tool that enables access to data anywhere, anytime.

MEASUREMENT PRINCIPLE

Real Tech's Conductivity probe measurement is based on the use of 4 electrodes. An alternating current of constant voltage is established between the graphic pair of electrodes. The voltage measured between these electrodes is a function of resistance, and therefore, conductivity. The platinum electrodes regulate voltage to prevent fouling of the graphic electrodes allowing for robust measurement in multiple applications.

REALTECH
INC.



CONDUCTIVITY PROBE SPECIFICATIONS

CHARACTERISTIC	TECHNICAL DATA
Parameters	Conductivity, salinity
Range	0 to 200 mS/cm in 4 ranges: (0-200 μ S/cm, 0-2000 μ S/cm, 0-20 mS/cm, 0-200 mS/cm)
Accuracy	+/- 1% of the full range
Resolution	From 0.01 to 1, according to the range
Units	mS/cm
Response Time	< 5 s
Measurement Principle	Conductivity sensor with 4 electrodes (2 graphic, 2 platinum)
Operating Temperature	0 – 50°C
Temperature Compensation	NTC thermistor
Measurement Refresh Rate	< 1 second maximum
Electrical/Communication	From controller
Operating Temp.	0°C to 50°C (32 to 122°F)
Storage Temp.	-10°C to 60°C (14 to 140°F)
Weight	1 lb
Warranty	2-year limited warranty

SPECIFICATIONS FOR CON1000A ONLY

Dimensions 6.18"H x 1.06" Diameter

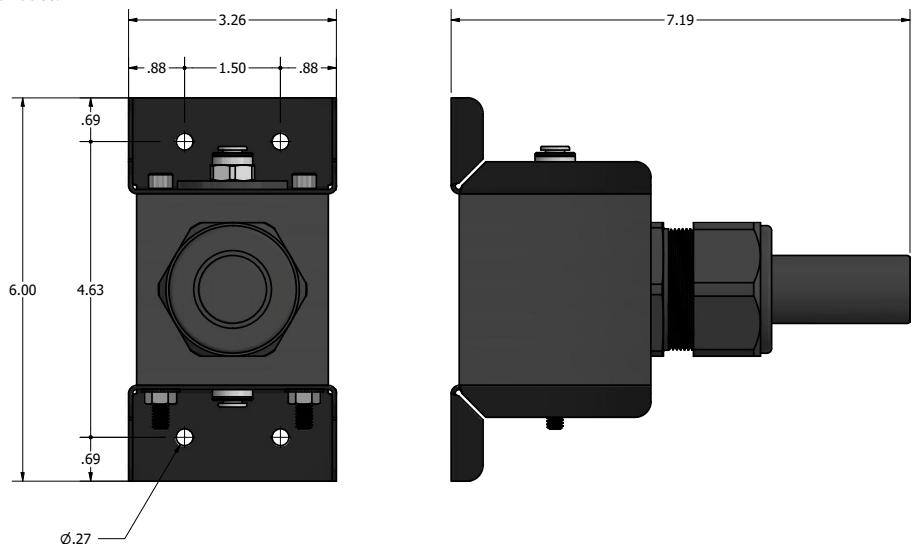
SPECIFICATIONS FOR CON1000L ONLY

Flow Rate 300-1000 mL/min
 Pressure Rating 5 PSI maximum
 Fluid Connections 1/4" OD tube push-in fittings
 Dimensions 6.00"H x 3.26"W x 7.19"D

* Technical Specifications are subject to change without notice.

DIMENSIONS FOR CON1000L

The CON1000L Conductivity sensor is installed in a bypass manifold that is mounted directly on a wall, railing or system backboard. Sample is supplied to the sensor from a pressurized source.



SENSOR MODELS

Includes conductivity probe and 50 ft communication cable.
Controller and accessories sold separately.

MODEL #	NAME	DESCRIPTION
CON1000A	Real Conductivity Probe Sensor	Submersible probe idea for open channel wastewater applications. Optional Mounting Kits available.
CON1000L	Real Conductivity Bypass Sensor	Bypass style sensor ideal for pressurized water applications. Includes bypass chamber.

RANGE

MODEL #	CONDUCTIVITY (mS/cm)
CON1000A / CON1000L	00 to 200 mS/cm in 4 ranges (-200 µS/cm, 0-2000 µS/cm, 0-20 mS/cm, 0-200 mS/cm)

* Stated ranges approximate, dependent on industry, site and application

CONTROLLERS

Controllers include proprietary inputs for Real Tech sensors and accessories.

PRODUCT #	NAME	DESCRIPTION
S-229005	Real Controller Lite	Wall mounted controller with 4-line x 20-character back lit LCD display. Includes modbus RTU (RS485)
S-169000	Real Controller	Wall mounted controller with 4-line x 20-character back lit LCD display. Includes modbus RTU (RS485), 1 channel of 4-20 mA out and digital I/O module
S-11TPC	Real Controller Pro	Wall mounted controller with 12.1" colour LCD touch panel PC interface (PC inside cabinet model). Includes Modbus TCP
S-11TPCD	Real Controller Pro	Wall mounted controller with 12.1" colour LCD touch panel PC interface (PC external on door model). Includes Modbus TCP

ACCESSORIES

PRODUCT #	NAME	DESCRIPTION
S-189061	Mounting Kit I	Probe Mounting Kit I with nozzle for CON1000A. No pole included.
S-189062	Mounting Kit II	Probe Mounting Kit II with nozzle for CON1000A. 5' pole included.
S-189063	Mounting Kit III	Probe Mounting Kit III with nozzle for CON1000A. 10' pole included.

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