Pi ConductiSense

Online Conductivity Meter

The ConductiSense range of Conductivity meters from Pi utilize the a range of conductivity sensors for measuring the conductivity from 0 to 2,000,000 µS/cm (range selectable). You can choose between a standard graphite sensor and a more sophisticated toroidal sensor, or stainless steel 'special' sensors for high temperature, high pressure applications.

- **Low purchase cost**
- **Low cost of ownership**
- **Resists coating, corrosion and fouling**
- **Durable Noryl/stainless steel construction**
- **Easy installation**
- **Custom tee for in-line mounting**
- **TDS and salinity outputs**

The ConductiSense sensors and accessories are available with different controllers giving you the same great performance with different communication, display, and control options. With the ConductiSense range of Conductivity Monitors, you get everything that you need - and nothing that you don't.

CRONOS® ConductiSense

- High Quality - Lowest Cost
- Multilingual
- High resolution grayscale display
- 9 buttons for easy navigation
- Graphing and datalogging
- Enclosure; wall, panel, pipe or pole mounting. IP65/Nema 4x.
- Options:
  - **Modbus RS485/LAN**
  - **Profibus**
  - **Up to 2 sensors**
  - **PID/flow proportional controls**
  - **Remote sensors**
  - **Color display**
  - **Downloadable data logs**

CRIUS® ConductiSense

- Highest Quality - Low Cost
- Multilingual
- High resolution color display
- Intuitive user interface
- Customizable home pages
- All CRONOS® options plus:
  - **Up to 4 sensors**
  - **Remote access via LAN**
  - **Remote access via GPRS**
  - **Expandable to 16 sensors**

For more information please see the individual brochures for CRONOS® and CRIUS®

Sensor Selection

Graphite

- **0-1000 µs/cm**
- **K - 0.1, 1, 10**
- **Flow cell or pipe mounted**
- **Potable, clean water**

Toroidal

- **500-2,000,000 µs/cm**
- **In pipe or dip mounted**
- **Dirty water**
- **Noryl**

Specials

- **Contact Pi**
- **High temp**
- **High pressure**
- **Clean in place**
- **Stainless steel**

All of Pi's conductivity sensors can be used to measure salinity and TDS (Total Dissolved Solids).

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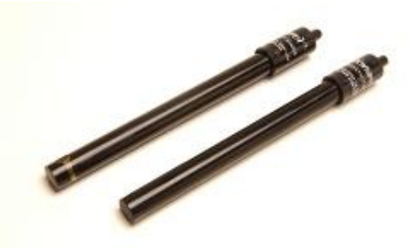
Principle of Operation

Graphite

Our light industrial conductivity sensor utilizes Graphite technology. The durable epoxy body construction provides a rugged and dependable sensor for potable water and clean water. Mount them in-line, in a pipe "T" fitting, or submerse them into a tank. For many applications, the epoxy body conductivity sensors are the lowest cost, most reliable conductivity sensor to use, especially for process applications. Rugged epoxy bodies make the sensors virtually unbreakable. These are an excellent choice to use as standard online conductivity electrodes in the water and related industries.



Toroidal

The toroidal inductive conductivity sensors features a wide measurement range and dependable toroidal technology over the range 0-2,000,000 µS/cm. Resistant to corrosion, coatings and fouling common to contacting conductivity sensors, this probe is designed for a trouble free and long service life. Noryl is the standard material of construction and has a wide solvent tolerance and temperature stability to 105ºC. All models can be submersed by utilizing the 3/4" MNPT threads on the sensor or installed in 2" NPT tees for in-line deployment. A temperature sensor is built into the conductivity sensor for automatic temperature compensation.

TDS and Salinity

Total Dissolved Solids (TDS) and salinity are both measured with conductivity sensors, and the Pi controllers can provide outputs and on screen displays of calculated TDS and salinity readings from the conductivity sensors. All ConductiSense controllers come with standard user adjustable, factors for calculating TDS and salinity.

Specification*

Standard Graphite Sensor

Type:	Graphite
Measuring range:	0-2000 µS/cm (other ranges available on request)
Cell Constants:	k=0.1, 1, 10
Measuring Surface:	Graphite
Body Material:	Epoxy
Max Temperature:	70 Degrees C
Max Pressure:	7.5 Bar
Temp Comp:	Included
Cable:	22 AWG 4-wire, for temperature compensated type. 3ft standard unless otherwise specified

Specification*

Advanced Toroidal Sensor

Type:	Toroidal
Measuring Range:	500-2,000,000 µS/cm (0.5-2000 mS/cm)
Body Material:	Noryl
Max Temperature:	105 Degrees C
Max Pressure:	10 Bar
Temp Comp:	Included
Cable Length :	6 meters, 6 conductor plus shields
Process Connection:	3/4" MNPT for submersion, 2" standard tee with adapter

For specialist high temperature applications, please contact Pi or your local sales organisation for more details.

All subject to change without notice

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