



NT® 8800 CONDUCTIVITY SENSOR

Enables highly accurate measurement of chemical blends

Overview

The unique NT® 8800 Conductivity Sensor introduces a new multi-toroid, patent-pending measurement approach to electrodeless conductivity for use in manufacturing semiconductors, electronics, LCD assemblies, specialty chemicals and more.

The all-PFA Teflon® sensor introduces a new, compact, high-accuracy solution for applications requiring low-liquid volume and high purity. The advanced sensor provides an innovative approach in a clean, simple, noninvasive and cost-effective design package for very demanding applications, including measurement of ultrapure and/or aggressive chemical concentrations.



Features and Benefits

- New patent-pending, multi-toroid approach to electrodeless conductivity
- Virgin PFA Teflon® wetted material for high-purity applications
- All welded connections; no threads, o-ring or gasket seals
- Handles liquids from hydrofluoric, hydrochloric, nitric and sulfuric acids to TMAH and ammonium hydroxide
- Highly accurate measurements for semiconductor, other electronics, LCD assemblies, specialty chemicals, etc.
- Noninvasive, multi-toroid design
- Ideal for high-purity applications with low liquid volume and small line size
- Improved performance at an extremely competitive price
- Choice of Teflon® tube sizes ½", ¾" and 1"

Specifications

Maximum temperature:	To 140°C
Pressure range:	To 100 PSIG
Wetted materials:	Teflon® virgin PFA
Internal integrity:	Leak-free weld connections No internal threads No o-ring or gasket seals
Sensor:	Multi-toroid (patent pending), noninvasive, completely nonmetallic design
Sensor housing:	Utilizes ultra-high molecular weight (UHMW) polyethylene rectangular enclosure
Sensor housing dimensions:	~7" (L) × 5" (H) × 2" (W) = rectangular
Sensor mounting:	Pipe or surface mounting capability

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Specifications (continued)

Process connections:	Select Flaretek®, Nippon Super Pillar® 300 or undressed (bare tube)
Tubing size:	Choice of 1/2", 3/4" or 1"
Flush rate (100%):	Less than 30 seconds
Cell factor (elec. and geom.):	Referenced on label Determined experimentally for each tubing size
Conductivity range (full-scale):	From 0 to 500 µS/cm up to 0 to 2000 mS/cm (tube-size-specific)
Temperature compensator:	3-wire 1000 ohm RTD or 3-wire 100 ohm RTD
Electrical connections:	Calibration port (EP485F compatible) Sensor/RTD cable (871FT calibration cable and patch cord compatible)
Sensor cable:	Patch cord utilizing Tajimi (mil spec) connector, or Integral cable of PVC or Teflon®
Testing:	Each sensor tested prior to shipment
Material certification:	Shipped with each sensor (vendor-supplied) (all PFA Teflon®)
Pressure certification:	Shipped with each sensor (vendor-supplied)
Safety certifications:	FM, ATEX, CSA, both intrinsically safe and nonincendive certifications, applied for prior to release.
Label:	Includes geometric and electrical cell factor and recommended flow direction Recommended flow is vertical with flow from the bottom.
Warranty:	One year, full workmanship
HF policy:	Shipped with each sensor master instructions Briefly: NO product exposed to hydrofluoric acid (HF) will be returned for any reason.

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select "Regional Customer Service Centers" for the center nearest you.

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ENTEGRIS, INC.

Corporate Headquarters / 3500 Lyman Boulevard / Chaska, Minnesota 55318 USA
Customer Service Tel. 952-556-4196 in North America 800-394-4084 / Customer Service Fax 952-556-8022
www.entegris.com / www.entegrisfluidhandling.com

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