

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

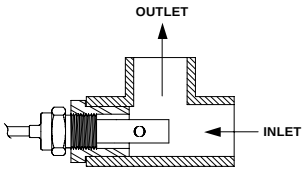
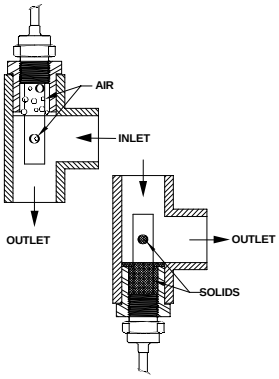
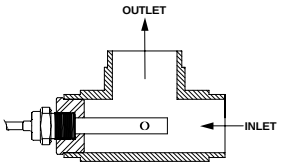
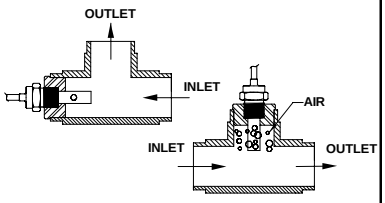
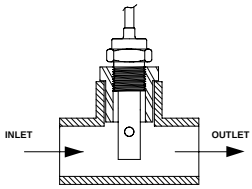
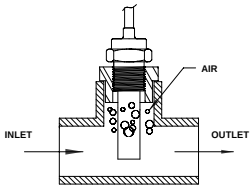
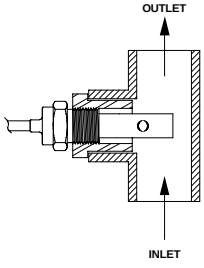
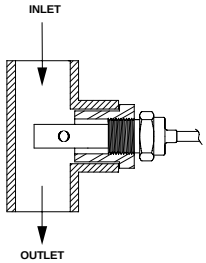
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THORNTON

Leading Pure Water Analytics

INSTALLATION INSTRUCTIONS FOR 0.01 AND 0.1 CONSTANT CONDUCTIVITY / RESISTIVITY SENSORS

TYPICAL INSTALLATIONS	READ THIS FIRST	NOT RECOMMENDED
RECOMMENDED MOUNTING  **This is the ideal mounting position**	The solution flow should be directed into the end of the sensor and allowed to pass out the circulation holes of the outer electrode. The sensor should be mounted so the cavity does not trap air or solids.	
RECOMMENDED MOUNTING  	Flow pipes 3" in diameter or greater, should use sensors with extended lengths to prevent a deadleg at the end of the pipe.	
 	Vertical mounting is possible, if the pipe is full and air is not trapped between the electrodes. The solution must circulate inside the outer electrode for accurate measurements.	
 	Mount the sensor in a vertical pipe with the flow direction up. Mettler-Toledo Thornton does not recommend mounting the sensor in a vertical pipe with the flow direction down, because air bubbles or air pockets may affect the sensor measurement.	

METTLER TOLEDO

Cell Installation

A 1/2-inch clearance is recommended in metal piping, between the cell tip and the pipe wall. Use Teflon tape to seal the threads and to facilitate the installation.

For cells with 1/2 or 3/4" NPT plastic fittings, apply 3-4 wraps of Teflon tape. Torque the sensor to 10 ft-lb. (20 ft-lb. Max).

Cell Maintenance

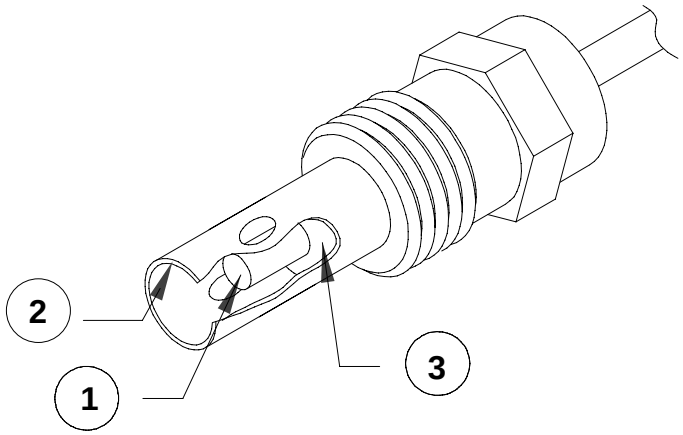
Note:	Contaminated cells can give inaccurate high or low readings, depending upon where the contamination is deposited. Both of the electrodes and the insulator surfaces must be clean to ensure accurate readings.

If contamination is suspected, remove the cell from the piping and clean the electrodes and insulator. When cleaning, use a cotton swab saturated with a mild detergent or a very dilute (0.5% or less) inorganic acid, i.e. HCl (Hydrochloric Acid), H_2SO_4 (Sulfuric Acid), HNO_3 (Nitric Acid) to wipe:

1. The surface of the inner electrode.

2. The inner surface of the outer electrode.

3. The insulator.



Rinse thoroughly with distilled or deoinized water before installation. Avoid touching the freshly cleaned surfaces because oil from your hands will recontaminate the cell.

DO NOT USE ABRASIVE MATERIALS ***such as steel wool or nylon scrubbers, these may harm the electrode surface and could affect the accuracy. Fluorinated hydrocarbon cleaning solutions, (e.g., Freon-based solvents) should not be used on cells with plastic (Noryl) fittings, as they may attack the plastic and cause permanent damage.*** ***DO NOT USE THESE SOLVENTS ON TYPES: 203, 208, 293, OR 298 CELLS.***

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OM84136 Rev. G 08/03

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Gold-standard solutions

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We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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