

The MicroTrac is a microprocessor based feed and bleed toroidal conductivity controller designed to control conductivity and feed inhibitor in cooling tower systems. Featuring innovative toroidal sensor technology, the MicroTrac provides an economical control platform that is not susceptible to sensor fouling and never requires calibration! The MicroTrac toroidal conductivity sensor is factory calibrated for the life of the probe eliminating routine calibrations saves you valuable service time and money. By design, the MicroTrac toroidal conductivity sensor has no exposed electrodes, which means that there is nothing to wear out or foul. When installed according to the manufacturer's instructions, the need for routine sensor removal and cleaning is virtually eliminated.

The MicroTrac measures the conductivity of the cooling tower recirculating water via a toroidal conductivity sensor. The controller activates two independent relay outputs based on bleed and a selectable feed mode of operation. The MicroTrac conductivity controller has a 0 - 9,999  $\mu\text{S}/\text{cm}$  range, making it ideal for other applications as well, such as rinse, industrial process, wastewater, etc.



## FEATURES

- Toroidal conductivity sensor factory calibrated and maintenance free.
- Selectable rising or falling setpoint for open or closed loop control.
- Water meter pulse timer.
- Percent timer.
- % post bleed timer.
- Limit timer.

## CONTROLS



### Timers

- Water meter pulse timer
- Percent timer
- % post bleed timer
- Limit timer
- Alarm output

## OPERATING BENEFITS

- Easy to use.
- No calibration required.
- Reduced potential for fouling.
- Easy Installation.
- Two year warranty.
- Large range: 0 - 9,999  $\mu\text{S}/\text{cm}$ .
- Simple user interface.



**MicroTrac**  
Cooling Tower Controller

## SPECIFICATION AND MODEL SELECTION

MODEL	Voltage	Relay & Power Wiring	Sensor Tee	Flow Switch
MTC1LTA-XXX	115V	Liquid-Tight	Yes	Standard Panel & Flow Assembly
MTC1LTA-CZXXX	230V	Liquid-Tight	Yes	Standard Panel & Flow Assembly
MTC1LTF-XXX	115V	Liquid-Tight	Yes	Flow Switch with 15' cable
MTC1LTF-CZXXX	230V	Liquid-Tight	Yes	Flow Switch with 15' cable
MTC1LTX-XXX	115V	Liquid-Tight	Yes	Standard (no flow switch)
MTC1LTX-CZXXX	230V	Liquid-Tight	Yes	Standard (no flow switch)
MTC1PTA-XXX	115V	Prewired w/ pigtails	Yes	Standard Panel & Flow Assembly
MTC1PTF-XXX	115V	Prewired w/ pigtails	Yes	Flow Switch with 15' cable
MTC1PTL-XXX	115V	Prewired w/ pigtails	Yes	Standard Panel & Flow Assembly
MTC1PTX-XXX	115V	Prewired w/ pigtails	Yes	Standard (no flow switch)
MTC1XTF-XXX	115V	Prewired & Liquid-Tight	Yes	Flow Switch with 15' cable
MTC1XTX-XXX	115V	Prewired & Liquid-Tight	Yes	Standard (no flow switch)

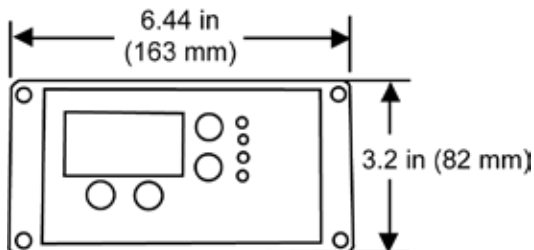
CE approved, non-prewired models, or 230 VAC, change the end of the code from "-XXX" to "-CZXXX"

## ENGINEERING DATA

Controller Specifications	
Enclosure	IP65 / NEMA 4X
Temperature Range	122°F / 50°C
Power Supply	90 VAC – 240 VAC / 50/60Hz / 5A
Control Output	Line Voltage @ 240VA per Relay (2 Amps @ 120VAC))
Display	LCD
Set Point Range	0 - 9,999 $\mu$ S/cm
Set Point Differential (Hysteresis)	Fixed 5% below the set point

Sensor Specifications	
Maximum Temperature	122°F / 50°C
Flow Switch Activate Flow Rate	Approx. 1 GPM / 3.78 LPM
Conductivity Temp. Compensation Range	32°F - 122°F / 0°C - 50°C
Maximum Pressure	125 PSI (8.6 BAR)
Flow Switch Materials of Construction	PVC and Glass Filled Polypropylene
Sensor Type	Toroidal Conductivity
Cable Length, Standard	15' / 4.5m
Cable Length, Maximum	100' / 30.5m
Thread Size	0.5" Standard Thread-Excludes Tee and Reducer
Maximum Outside Diameter	1.5" / 38mm-Excludes Tee and Reducer
Materials of Construction	Virgin Polypropylene

## DIMENSIONS



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**IBEX**  
MTC001 E19