

# MicroTrac

## Cooling Tower Controller



### MicroTrac Toroidal Conductivity Cooling Tower Controller

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!

#### Principle of Operation

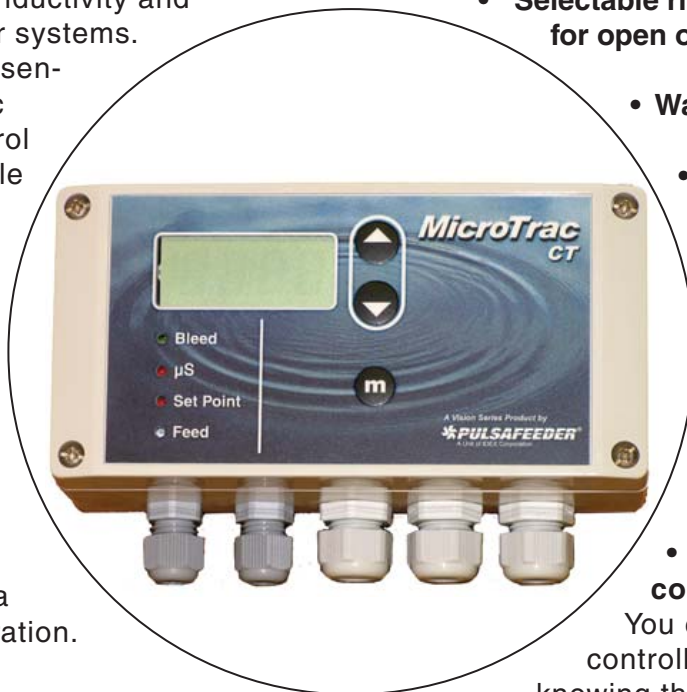
The MicroTrac measures the conductivity of the cooling tower recirculating water via a toroidal conductivity sensor. The controller activates two independent relay outputs based on bleed and a selectable feed mode of operation.

#### Operating Benefits

- **No calibration required!** MicroTrac's toroidal sensor technology saves you valuable service time and money by eliminating routine calibrations. The MicroTrac toroidal conductivity sensor is factory calibrated for the life of the probe.
- **Reduced potential for fouling!** 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 – saving you time and money.
- **Easy installation.** Optional pre-wired receptacles for the relays and an optional pre-wired flowswitch make installation a breeze.

#### Key Benefits

- **Selectable rising or falling setpoint for open or closed loop control**
- **Water Meter Pulse Timer**
- **Percent Timer**
- **% Post Bleed Timer**
- **Limit Timer**



- **Two year warranty on controller and sensor!**

You can install the MicroTrac controller with confidence, knowing that it is backed by Pulsafeeder with a two year warranty on the controller and sensor.

- **Large range.** 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.
- **Simple user interface.** A large LCD display and simple programming via a three-button interface make the unit extremely easy to set up and program.

technology  
innovation  
excellence  
diversity

# MicroTrac Model Selection

<b>MicroTrac Selection Guide</b>		M	_	_	_	_	_	_	_
<b>PRODUCT DESIGNATOR</b> <small>Position 1, 2 &amp; 3</small>	MTC = <i>MicroTrac</i> Toroidal Conductivity Cooling Tower Controller								
<b>VOLTAGE</b> <small>Position 4</small>	1 = 115 volt 2 = 230 volt (no prewired power cord or relays available)								
<b>RELAY &amp; POWER WIRING</b> <small>Position 5</small>	X = Prewired power cord & Liquid-Tight relay connections L = Liquid Tite connections only (required for 230VAC) P = Prewired power cord and relays								
<b>SENSOR TEE</b> <small>Position 6</small>	X = Standard (no tee) T = Sensor Tee with 3/4" inlet/outlet connections								
<b>PANEL</b> <small>Position 7</small>	X = Standard (no flow switch) F = Flow Switch with 3' cable L = Standard Flow Assembly (no panel) A = Standard Panel & Flow Assembly B = Deluxe Panel & Flow Assy, 1 Pump Mount, in/out ball valves, strainer, inj tees & rails								
<b>SUFFIX CODE</b> <small>Sensor Cable Length Position 8 thru 12</small>	XXX = Suffix Code 750 = 3/4" Back Flow Check Valve PC025 = 25 Feet (7.6m) PC050 = 50 Feet (15.2m) PC075 = 75 Feet (22.8m) PC100 = 100 Feet (30.4m)								

## MicroTrac Specifications

### Controller Specifications

Enclosure	NEMA 4X / IP66
Dimensions	6.4" x 3.2" x 3.2" (163 x 82 x 82 mm)
Power supply	120VAC / 5A or 200VAC / 5A; 50/60Hz
Control Output	Line Voltage @ 240 VA per Relay (2 amps @ 120 VAC)
Display	LCD
Set Point range	0 - 9,999 $\mu$ S/cm range in 1 $\mu$ S/cm increments
Set Point Differential (Hysteresis)	Fixed 5% of set point

### Sensor Specifications

Maximum Temperature	122°F (50°C)
Temperature Compensation Range	32 - 122°F (0 - 50°C)
Maximum Pressure	125 psi (8.6 BAR)
Sensor Type	Toroidal
Cable Length, Standard	15' (4.5 m)
Materials of Construction	High grade stainless steel and high temp polypropylene



An ISO 9001 and 14001 Certified Company



A Unit of IDEX Corporation



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