

# PULSAFEEDER®

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

- Selectable rising or falling setpoint for open or closed loop control.
- Water meter pulse timer.
- Percent timer.
- % post bleed timer.
- Limit timer.

## Controls

- Bleed
- $\mu\text{S}$
- Set Point
- Feed

## Timers

- Water Meter Pulse Timer
- Percent Timer
- % Post Bleed Timer
- Limit Timer

## 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.



## Aftermarket

- Solenoids
- Motorized Ball Valves
- Water Meters
- Corrosion Coupon Racks
- Metering Pumps (PULSAtron, XP Series)



**MicroTrac**  
Cooling Tower Controller

# MicroTrac Cooling Tower Controller

## Specifications and Model Selection

MicroTrac Selection Guide		MTC	-	-	-	-	-	-
<b>PRODUCT DESIGNATOR</b> Position 1, 2 & 3	MTC	= MicroTrac Toroidal Conductivity Cooling Tower Controller						
<b>VOLTAGE</b> Position 4	1	= 115 volt						
	2	= 230volt						
<b>RELAY &amp; POWER WIRING</b> Position 5	X	= Prewired power cord & Liquid-Tight relay connections						
	L	= Liquid-Tight connections only						
	P	= Prewired power cord and relays (115 VAC only)						
<b>SENSOR TEE</b> Position 6	X	= Standard (no tee)						
	T	= Sensor Tee with 3/4" inlet/outlet connections						
<b>FLOW SWITCH</b> Position 7	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 tee & rails						
<b>SUFFIX CODE</b> Position 7, 8 & 9	XXX	= Suffix Code						
	750	= 3/4" Back Flow Check Valve						
	PC025	= 25 Feet (7.6m) of Probe and Flow Switch wiring						
	PC050	= 50 Feet (15.2m) of Probe and Flow Switch wiring						
	PC075	= 75 Feet (22.8m) of Probe and Flow Switch wiring						
	PC100	= 100 Feet (30.4m) of Probe and Flow Switch wiring						
	CZ_XXX	= CE Approval w/input power cord and plug (CZXXX=European plug; CZUKXXX=UK plug; CZSUIXXX=Swiss plug)						

### Engineering Data Controller

<b>Enclosure:</b>	NEMA 4X / IP65
<b>Power Supply:</b>	90VAC / 50/60Hz / 5A 250 VAC / 50/60Hz / 5A
<b>Control Output:</b>	Line Voltage @240VA per Relay (2 Amps @ 120VAC)
<b>Display:</b>	LCD
<b>Set Point Range:</b>	0 – 9,999 µS/cm
<b>Set Point Differential (Hysteresis):</b>	Fixed 5% below the set point

### Engineering Data Sensor

<b>Maximum Temperature:</b>	122°F / 50°C
<b>Temperature Compensation Range :</b>	32°F - 122°F / 0°C - 50°C
<b>Maximum Pressure:</b>	125 PSI (8.6 BAR)
<b>Sensor Type:</b>	Toroidal
<b>Cable Length, Standard:</b>	15' / 4.5m
<b>Cable Length, Maximum:</b>	100' / 30.5 m
<b>Thread Size:</b>	0.5" Standard thread-Excludes Tee and Reducer
<b>Maximum Outside Diameter:</b>	1.5" / 38mm-Excludes Tee and Reducer
<b>Materials of Construction:</b>	Virgin Polypropylene

### Engineering Data Flow Switch

<b>Maximum Temperature:</b>	122°F / 50°C
<b>Maximum Pressure:</b>	125 PSI (8.6 BAR)
<b>Activate Flow Rate:</b>	Approximately 1 GPM / 3.78 LPM
<b>Materials of Construction:</b>	PVC and Glass filled Polypropylene

### Custom Engineered Designs – MicroVision Panel Mount



#### Systems

Pulsafeeder's MicroVision Systems are designed to provide complete chemical feed solutions for all electronic metering applications. From stand alone simplex pH control applications to full-featured, redundant sodium hypochlorite disinfection metering, these rugged fabricated assemblies offer turn-key simplicity and industrial-grade durability. The UV-stabilized, high-grade HDPE frame offers maximum chemical compatibility and structural rigidity. Each system is factory assembled and hydrostatically tested prior to shipment.

### Dimensions

