



Cooling Tower Controllers

Pulsafeeder Expertise

Technology is the key to delivering responsible products to the markets that we serve. Leading the way in the development of metering technologies, Pulsafeeder continues to set the standard for accuracy, reliability and safety.

Innovation is another hallmark of Pulsafeeder. Helping customers find a new approach to an old problem is what we do best.



Cooling Tower Controller Technology

Pulsafeeder's line of Cooling Tower Controllers are designed for simplicity and reliability. Offering affordable, high performance MicroTrac and MicroVision Controllers are easy to specify and easy to use. Pulsafeeder Cooling Tower Controllers provide you the control of your cooling tower system, with the ability to accurately control the level of dissolved solids, conductivity, makeup, pH, ORP, feed inhibitor and much more. With multiple control options available in Pulsafeeder Cooling Tower Controllers we are sure to have a unit to fit your Cooling Tower needs.

Toroidal Sensor Technology

Featuring innovative toroidal sensor technology, the MicroTrac and MicroVision Cooling Tower controllers provide an economical control platform that is not susceptible to sensor fouling and never requires calibration! The toroidal conductivity sensor is factory calibrated for the life of the probe eliminating routine calibrations saves you valuable service time and money. By design, Pulsafeeder's 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.

Standard Sensor Specifications

- Maximum Temperature: 122°F / 50°C
- Temperature Compensation Range : 32°F - 122°F / 0°C - 50°C
- Maximum Pressure: 125 PSI (8.6 BAR)
- Sensor Type: Toroidal
- Cable Length, Standard: 15' / 4.5 m
- Cable Length, Maximum: 750' / 228.6 m
- Materials of Construction: Virgin Polypropylene



Features & Benefits



Simple Programming

- Soft keys touch pad programming
- Intuitive menus make program alterations easy & understandable



Easy Installation and Easy to Use

- Pre-wired and conduit connections options make easy installation
- Large graphical display
- LED function indicators
- Touch pad program keys provide clear and precise system information



Toroidal Probe

- No calibration required
- Reduced potential for fouling



Heavy Duty Enclosure

- NEMA 4X rated
- Easy Installation

MicroTrac Features & Benefits



Timers

- Water meter pulse timer
- Percent timer
- % Post bleed timer
- Limit timer



Selectable Set Point

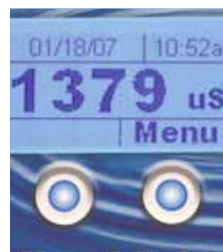
- Rising
- Falling
- Open or closed loop control

MicroVision Features & Benefits



Selectable Timers

- Limit
- Percent
- % Post bleed with limit
- Water meter
- Dual biocide timers



Outputs

- 4-20 mA isolated analog
- Dry contact alarm
- Bleed (Solenoid valve or motorized ball valve)



Digital Inputs

- Flow switch
- 3 Drum level
- Dry contact water meter
- Hall effect

MicroTrac 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!

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.

Controller Specifications

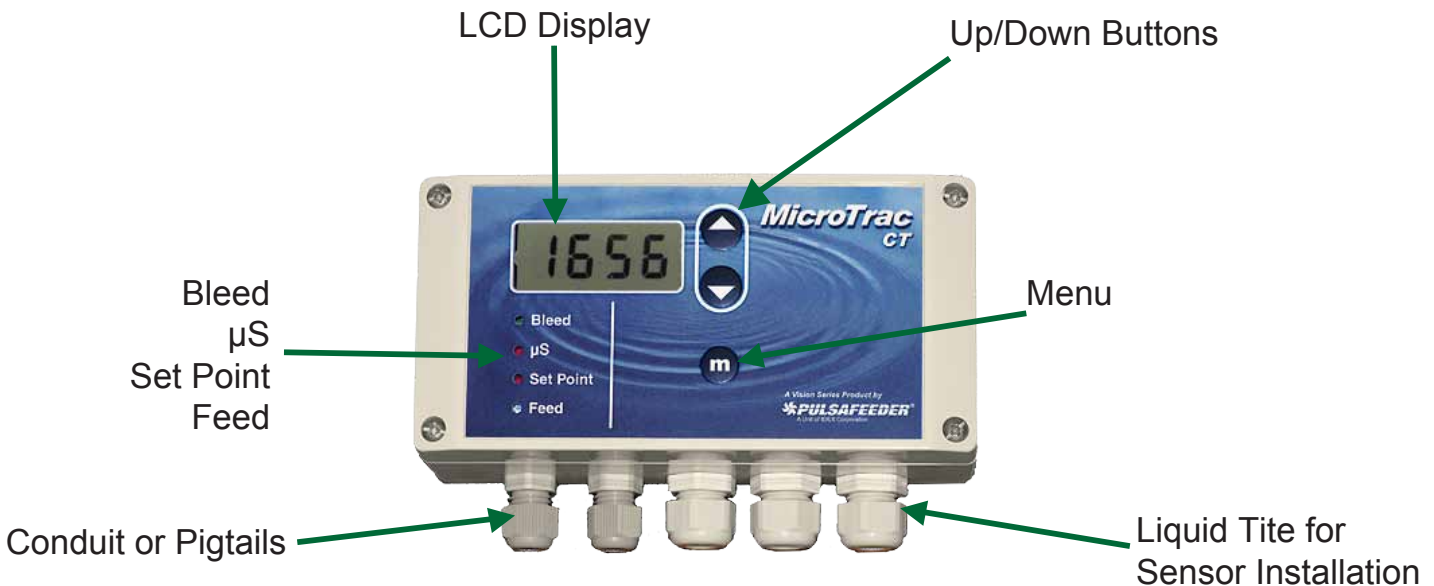
- Enclosure: NEMA 4X / IP65
- Dimensions: 6.44 x 3.2 in (163 x 82 mm)
- Power Supply: 90 VAC / 50/60Hz / 5A; 250 VAC / 50/60Hz / 5A
- Control Output: Line Voltage @240VA per Relay (2 Amps @ 120VAC)
- Display: LCD
- Set Point Range: 0 – 9,999 $\mu\text{S}/\text{cm}$
- Set Point Differential (Hysteresis): Fixed 5% below the set point

Flow Switch Specifications

- Max. Temp: 122°F (50°C)
- Max. Pressure: 125 PSI (8.6 BAR)
- Activate Flow Rate: Approximately 1 GPM / 3.78 LPM
- Materials of Construction: PVC and Glass filled Polypropylene

Typical Applications

- Comfort Cooling Process
- Industrial Cooling
- Rinse
- Industrial Process
- Wastewater



MicroVision Cooling Tower Controller

MicroVision Conductivity Cooling Tower Controller Standard with Toroidal Sensor Technology!
The MicroVision is a microprocessor-based conductivity controller with selectable timer and dual biocide control. Designed specifically for cooling tower applications, MicroVision comes standard with the features and functions you need for accurate monitoring and control of cooling tower water. The MicroVision is a full function controller in a compact package that won't break your budget!

Controller Specifications

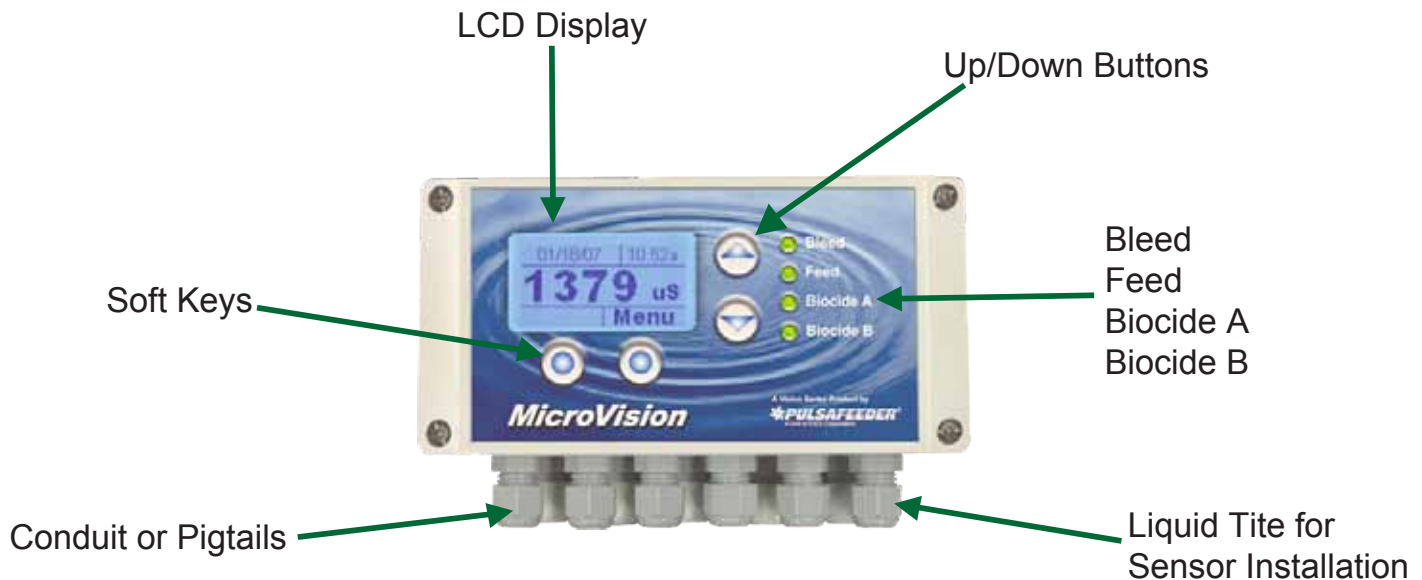
- Enclosure: NEMA 4X / IP65
- Dimensions: 6.44 x 3.2 in (163 x 82 mm)
- Power Supply:
90 VAC / 50/60Hz / 5A;
250 VAC / 50/60Hz / 5A
- Control Output:
5 Amps max
- Display: LCD
- Set Point Range: 0 – 9,999 $\mu\text{S/cm}$
- Languages: English, Spanish, Portuguese

Flow Switch Specifications

- Max. Temp: 122°F (50°C)
- Max. Pressure: 125 PSI (8.6 BAR)
- Activate Flow Rate:
Approximately 1 GPM / 3.78 LPM
- Materials of Construction:
PVC and Glass filled Polypropylene

Typical Applications

- Comfort Cooling Process
- Industrial Cooling
- Rinse
- Industrial Process
- Wastewater



System Options

Flow Assembly

Optional

- 125 psi max
- Available with or without panel



Standard Panel and Flow Assembly

Optional

- Flow Assembly per mounted on poly panel
- Quick, simple installation

Panel Mounted with Pumps

Optional

- **MicroTrac, Panel & Flow Assembly** includes 1 pump mount, in/out ball valves, strainer, inj. tee & rails
- **MicroVision, Panel & Flow Assembly** includes from 1 to 3 pump mount(s), strainer, sensor tee, inj. tee(s) & rails

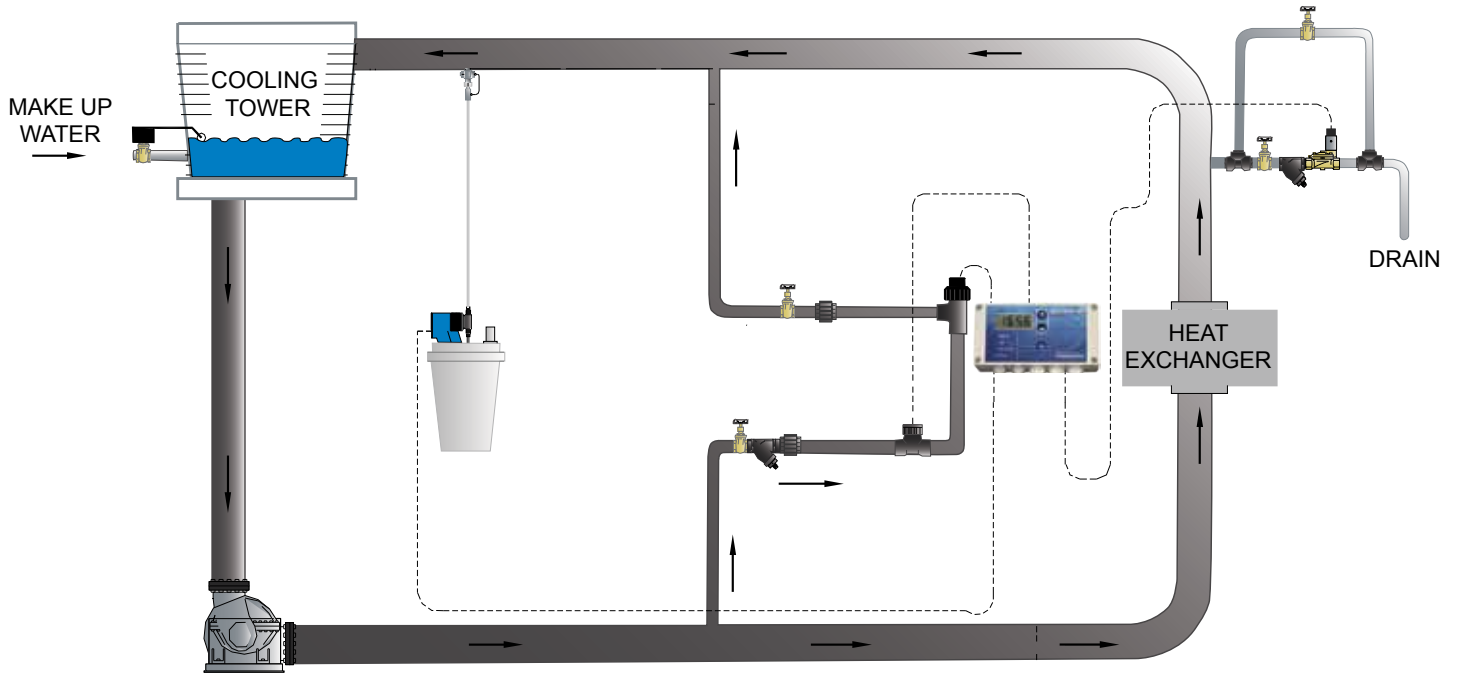


MicroTrac Typical Installation

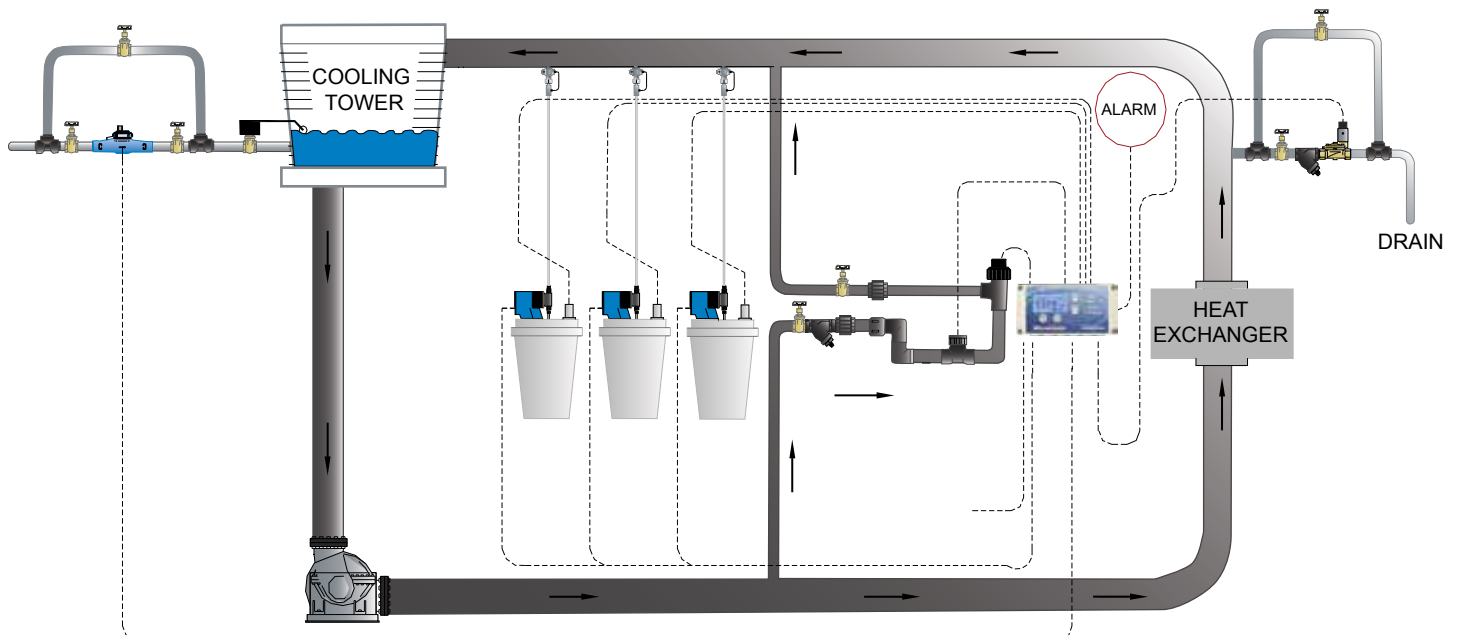
Typical Installation Includes:

- Solenoid Valve
- Water Meter
- Isolation Valves
- Metering Pumps

All Available from Pulsafeeder!



MicroVision Typical Installation



Parts & Accessories



PULSAtron Series Electronic Metering Pumps

The PULSAtron Series A PLUS and E PLUS electronic metering pumps can be used with the MicroTrac and MicroVision Series controller for timer based chemical metering.



CHEM-TECH Series Peristaltic Metering Pumps

The CHEM-TECH Series XP and XPV peristaltic metering pumps can be used with the MicroTrac and MicroVision Series controller for timer based chemical metering.



Coupon Racks are designed to provide reliable, convenient side stream monitoring using ASTM standard coupons. These rugged systems can be configured for up to six monitoring stations.



Solenoid Valves - Cooling Tower Applications

Solenoid Valves for use in your cooling tower application.



Contacting Head Water Meters Multi-Jet Meters

3/4 in. to 2 in., are designed for use in conjunction with a pulse timer to proportionally control pumps, valves etc. The Multi-Jet chamber of the water meter assures accuracy over a wide range of flows with low head loss.

Contact your local Pulsafeeder
Distributor or Pulsafeeder Technical
Services at 800-333-6677

pulsafeeder.com