

MicroTrac

Closed Loop



MicroTrac CL Toroidal Conductivity Closed Loop Controller

The *MicroTrac CL* is a microprocessor based, falling setpoint, toroidal conductivity controller designed to monitor and control chemical residuals in closed loop systems. Featuring innovative toroidal sensor technology, the *MicroTrac CL* provides an economical control platform that is pre-calibrated from the factory.

Principle of Operation

The *MicroTrac CL* measures the conductivity of the closed loop recirculating water via a toroidal conductivity sensor. When the conductivity measurement drops below the user defined set point, the two relays are activated to energize a chemical metering pump and feed chemical until the conductivity rises above the set point plus the fixed differential value, or until the user programmable limit times for feed are exceeded.

Operating Benefits

- **Pre-Calibrated!** *MicroTrac CL's* toroidal sensor technology saves you valuable service time and money by eliminating routine calibrations. The *MicroTrac CL* toroidal conductivity sensor is factory calibrated for the life of the probe.
- **Reduced potential for fouling!** By design, the *MicroTrac CL* 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.
- **Two year warranty on controller and sensor!** You can install the *MicroTrac CL* controller with confidence, knowing that it is backed by Pulsafeeder with a two year warranty on the controller and sensor.

- **Large range!** The *MicroTrac CL* conductivity controller has a 0 - 9,999 $\mu\text{S}/\text{cm}$ range, making it ideal for other applications as well.
- **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. With pre-calibration and a fixed differential, all that needs to be done is to program a conductivity set point and, if desired, the limit times for the feed relays.
- **Easy installation!** Optional pre-wired receptacles for the relays and an optional pre-wired flowswitch make installation a breeze.



technology
innovation
dive-
excellence



MicroTrac CL Model Selection

MicroTrac CL SELECTION GUIDE		MCL					XXX
PRODUCT DESIGNATOR <small>Position 1, 2 & 3</small>	MCL = <i>MicroTrac CL</i> Toroidal Conductivity Closed Loop Controller						
VOLTAGE <small>Position 4</small>	1 = 115 volt 2 = 230 volt (no prewired power cord or relays available)						
RELAY & POWER WIRING <small>Position 5</small>	X = Prewired power cord & Liquid-Tight relay connections (115 Volt only) L = Liquid-Tight connections only (required for 230 volt) P = Prewired power cord and relays (115 Volt only)						
SENSOR TEE <small>Position 6</small>	X = Standard (no tee) T = Sensor Tee with 3/4" inlet/outlet connections						
FLOW SWITCH <small>Position 7</small>	X = Standard (no flow switch) F = Flow Switch with 3' cable						
SUFFIX CODE <small>Position 8, 9 & 10</small>	XXX = Suffix Code						

MicroTrac CL Specifications

Controller Specifications

Enclosure	NEMA 4X/ IP65
Dimensions	4.73" x 2.28" x 3.15" (120 x 58 x 80 mm)
Power Supply	120 VAC / 5A or 230 VAC / 5A
Control Output	2 amps per relay
Display	LCD
Set Point Range	0 - 9,999 m S/cm range in 1 m S/cm increments
Set Point Differential (Hysteresis)	Fixed 5% of set point

Sensor Specifications

Maximum Temperature	125°F (52°C)
Temperature Compensation Range	32 - 125°F (0 - 52°C)
Maximum Pressure	125 PSI (8.6 BAR)
Sensore Type	Toroidal
Cable Length, Maximum	15' (4.5 m)
Materials of Construction	Virgin polypropylene



An ISO Certified Company



A Unit of IDEX Corporation



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