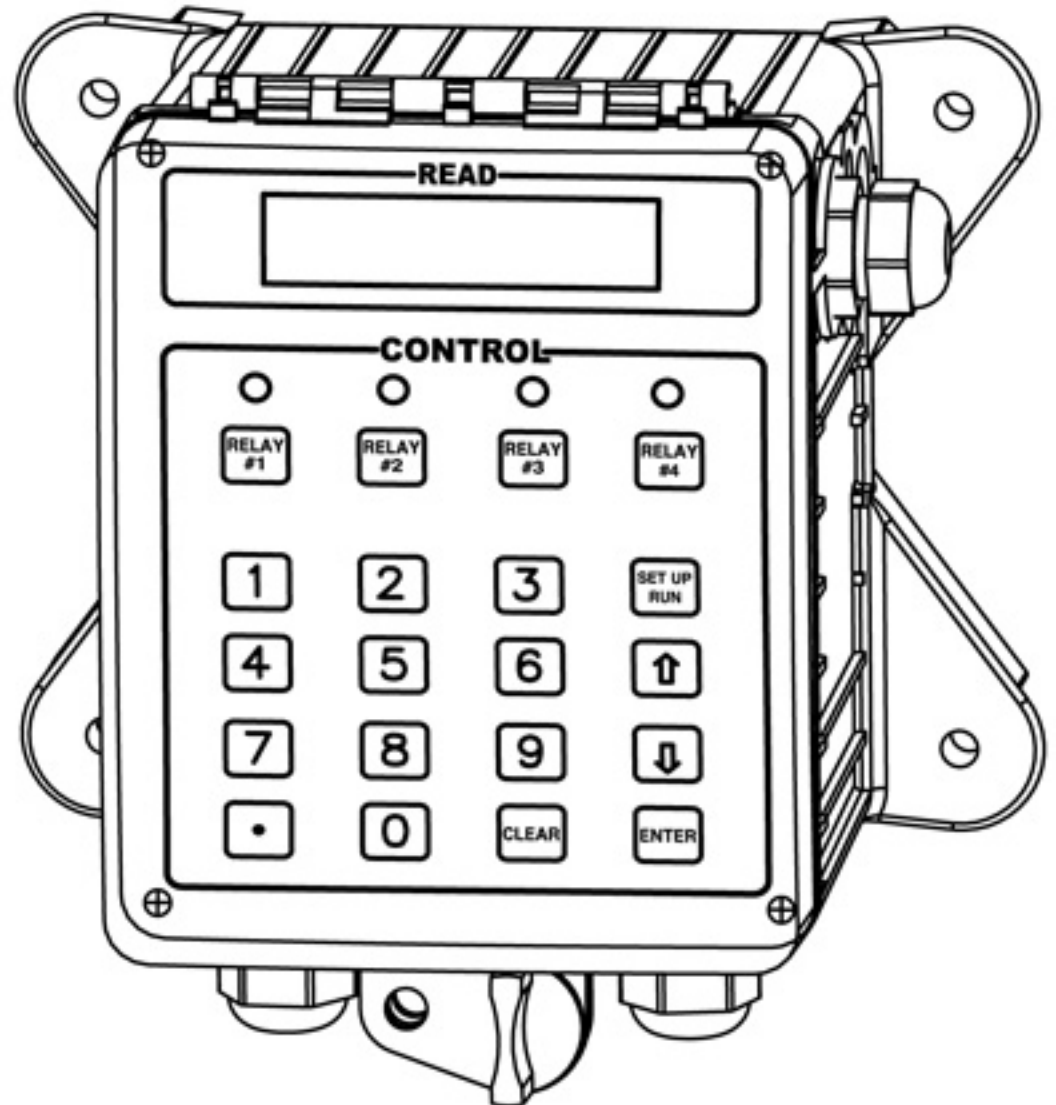


MicroTron Controller

Microprocessor Control of:

- Conductivity
- pH
- ORP
- Chemical Feed
- Biocide Control



Key Features

- 12 Bit Input Resolution
- Simple Step Through Menu
- One Point Calibration
- Raised Dome Keypads
- Relay Test Keys with L.E.D.
- Non-Volatile Memory
- No Battery Required
- User Defined Security Code
- 2 Year Warranty
- Expanded Set Up Parameters
- Selectable Sample Method
- Prewired Configuration

Application

The MicroTron series of controllers provides a wide range of options and features for a custom tailored unit to meet your unique systems needs.

MicroTron menu driven controllers can be configured with conductivity control of bleed plus pH and/or ORP control. Selectable chemical feed timers, biocide timers and many more options are available.

The MicroTron series of controllers for recirculating water systems, such as cooling towers or boilers, offers the most flexibility in features and functions for the price.

Base Functions

MicroTron tower controllers use temperature compensated probe readings with high and low alarms and limit timers for each probe based control function selected. Units have a maximum of 5 relay outputs.

All readings, settings, date/time and alarms are viewed in the display and changed via the menu and keypad.

MicroTron controller base model numbers:

LC.....Tower Conductivity
LC-2.....Tower and Make-up Conductivity
LCPTower Conductivity and pH
LCRTower Conductivity and ORP
LHCBoiler Conductivity (continuous, timed or hold)
LPpH Control
LR.....ORP Control
LF1 Timer: Pulse or Percent
LB.....28-day "Biocide" Timer

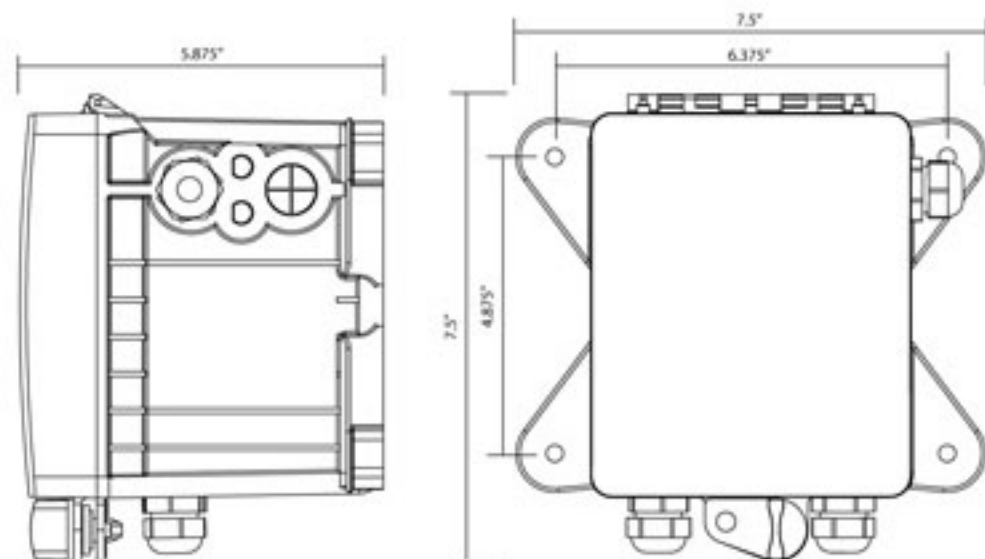
Additional Timers

- **F to F-4** (Pulse, Limit, % Post Bleed and %)
- **B to B-4** (28-Day timer)

Options

Your unit may be supplied with one or more options listed at the end of the model number. (LCFB-2E)
This list represents our most popular options.
For a complete list of options, consult the factory.

- A** Conduit Connections 95-240 VAC
- C-4** Single 4-20 mA Non-Isolated Output
- C-5** Dual 4-20 mA Non-Isolated Output
- E** Mounted Flow Switch Assembly 150 psi
- M** Alarm Relay
- Z-6** Accepts 2 Water Meter Inputs for Timers
- Z-19** Timed sampling conductivity control
- 9** Paddle Wheel Flowmeter input - 5 volt d.c. drive signal



Specifications

Electrical

- **Input:** 95-240 VAC, 50/60 Hz
- **Control:** Equal to input voltage (95-240 VAC) fused at 2.5A per relay

Prewired units are supplied with an 8' (248.84 cm) power cord and 8" (20.32 cm) output receptacles.

Operational

- **Display:** LCD 1 x 16 backlit alphanumeric
- **Conductivity Control:** 0-5000 μ S/cm scale
- **pH:** 0-14 scale
- **ORP:** +/- 1000 millivolts scale
- **Accuracy:** +/- 1%
- **Feed Timers (Selectable):**
 - Pulse:** 0-99 min, 59 sec run time, 1-99 counts
 - % of Time:** 0-99 min, 59 sec cycle, 1-99% on time
 - Feed with Bleed:** Limit timer 0-99 min, 59 sec
 - Post Feed Bleed:** Limit timer 0-99 min, 59 sec cycle, 1-99% of bleed cycle
 - Tower Biocide Timer:** 28 day programmable with prebleed and bleed lockout functions

Enclosure

Heavy duty NEMA 4X type high impact thermoplastic with padlockable gasketed Lexan viewing door.

Environment

Ambient temperature: 0° to 125°F (-17 to 52°C)
Relative humidity: 0 to 100%

Electrodes

Standard electrodes are supplied in 3/4" (1.91 cm) SCH 80 PVC female slip tees with quick release nut.

Tower Electrodes:

- **Conductivity:** TE-4A 150 psi (10.3 bar) / 140°F(58°C) Max
- **pH:** TPE-2 100 psi (6.8 bar) / 140°F(58°C) Max
- **ORP:** TOE-2 100 psi (6.8 bar) / 140°F(58°C) Max

Boiler Electrodes:

- **Boiler:** BE-4BC 250 psi (17.2 bar) / 400°F(204°C) Max
- **pH:** PE-21H 250 psi (17.2 bar) / 212°F(100°C) Max
- **Condensate:** AH-4B 100 psi (6.8 bar) / 212°F(100°C) Max

Shipping Weight: Approximately 6 lbs. (2.722 kg)

Dimensions:

W 7.5" (19.05 cm) x H 7.5" (19.05 cm) x D 5.875" (14.923 cm)