

## Data Sheet—

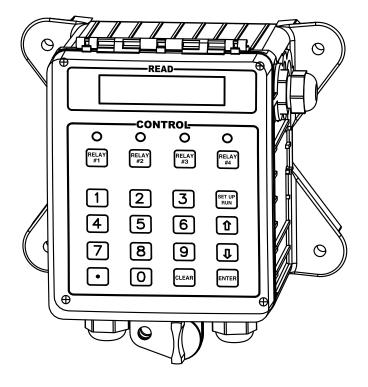
# MicroTron Controller

# 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

LCP ......Tower Conductivity and pH

LCR ...... Tower Conductivity and ORP

**LHC** ...... Boiler Conductivity (continuous, timed or hold)

LP.....pH Control
LR....ORP Control

LF ......1 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

5,875'

### **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 μS/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)

