

AC4000/5000 Series

Cooling Tower Conductivity Controllers



LMI is pleased to feature the AC4000 & AC5000 Cooling Tower Conductivity Controllers. These Analog Conductivity Controllers bring state-of-the-art technology to the entry-level controller market. They are designed to maintain peak efficiency in cooling towers by monitoring and controlling the conductivity of cooling tower water and controlling an LMI metering pump or other electrical device. These industrial controllers measure conductivity directly via a temperature compensated carbon probe in micro-Siemens/cm. The AC4000 Controller features feed and bleed cooling tower control. The AC5000 Controller features cooling tower control with three switch-selectable feed options.

State-of-the-Art Technology

Surface mount technology and an iron vane meter are utilized to provide accuracy and dependability. An optional 4 – 20 mA card is available for PLC communications or chart recording.

Switch Selectable Meter

There are two meter ranges available in each Controller. The AC4010 and AC5010 include a switch selectable 0–500/0–1000 uS/cm meter. The AC4050 and AC5050 include a 0–2500/0-5000 uS/cm meter.

NEMA 4X Housing / UL and CUL Approved

These enclosures are strong, yet flexible, enabling the controllers to be installed in most any environment. The housing features an integral junction box with a sealed cover that may be easily removed to access the terminal strips. Standard models are prewired, which only requires the operator to plug in the conductivity probe, solenoid bleed valve, and metering pump to complete the installation. These controllers have received UL and CUL approval.

Series AC4000



The AC4000 Conductivity Controller is an analog-based control system designed to operate in a variety of water treatment applications. The conductivity of the water is monitored and when the conductivity exceeds a preset level, a bleed valve is opened. A relay for a chemical feed pump is energized with the bleed valve to add corrosion inhibitors or other chemicals.

The AC4000 provides an adjustable bleed set point, preset 6% hysteresis (deadband), calibration adjustment, meter test circuit, and indicator lights for bleed/feed, power and flow for ease of operation. A flow switch input is provided to disable the controlled outputs in the event of a loss of flow in the system.

Installation of the AC4000 is fast and simple. The probe and output power cords are prewired at the factory. Just simply plug in the probe, bleed the valve and chemical pump, and the installation is complete.

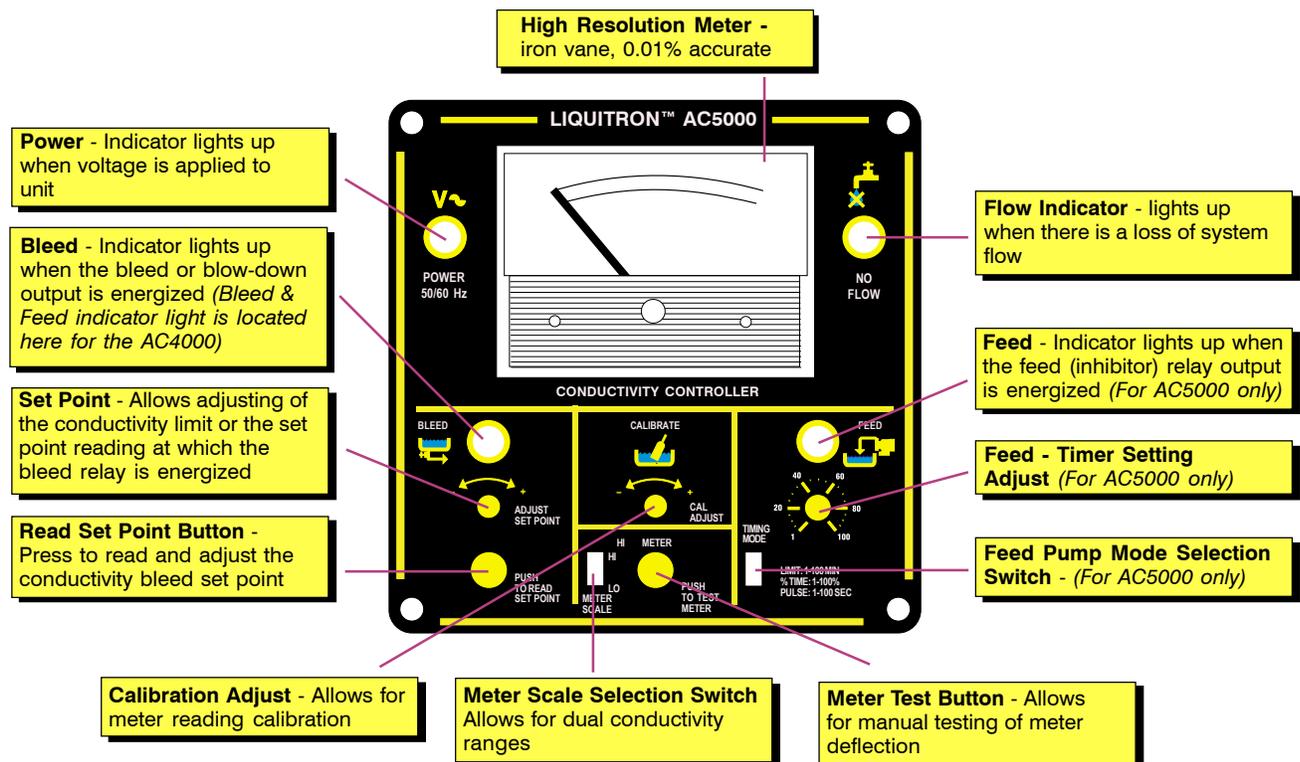
Series AC5000

The AC5000 includes all the features of the AC4000, plus three switch-selectable feed options; feed and bleed with lockout timer, feed as a percentage of time, and water meter triggered feed.

A **Limit Timer** provides an adjustable 1-100 minute lockout timer for the controlled addition of water treatment chemicals. Once the preset conductivity level is reached and the timer is activated, the chemical feed relay and corresponding LED indicator are energized. The limit timer will de-energize the chemical feed pump relay after the preset amount of time has passed. Adjustment of the timer can be made with the graduated knob on the front panel of the controller.

The **% Timer** provides a 10-minute repeating cycle timer. The % on-time can be adjusted from 1-100% with the knob on the front panel of the controller. The setting is based on the percentage of desired time the chemical feed pump is on during each 10-minute cycle. The LED indicator illuminates while the chemical feed pump is energized.

The **Pulse Timer** provides an adjustable 1-100 second chemical feed pump on-time for the addition of water treatment chemicals in proportion to makeup water volume. The timer is activated by a flowmeter pulse. The chemical feed relay and corresponding LED indicator are energized for the preset time. Adjustment of the timer can be made with the graduated knob on the front panel of the controller.



Front panel of AC5000 Controller



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