

## LEGIOMIX® electronic mixing valve

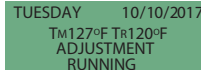
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6000 series

# QUICK START GUIDE

### OVERVIEW - READ ME BEFORE PROCEEDING!

1. The LEGIOMIX valve is factory pre-configured for basic mixed temperature control. All thermal disinfection functionality and the SHOCK button are disabled (but can be easily enabled in the Menu if needed).
2. Once mounted, wired, and powered up with **24 volts AC (field-provide a 115/24 VAC transformer)**, you will be prompted to set the Date, Time, and Region (USA) in the LCD display. The procedure is described below.
3. After setting the Date, Time, and Region, the control will run an “anti-clog” cycle (2 full strokes of the valve). This takes a few minutes. It then automatically goes to “Adjustment Running” mode for normal operation.
4. In normal operation, the green LCD screen shows Day, Date, mixed temperature “Tm” and return temperature “Tr” in degrees °F, and control mode. This display will also show alarms, log data, etc. if they occur.



5. The two gray/red LED segments labeled “Mixed °C” and “Return °C” will be off when °F is selected. If the temperature units are changed to °C, in the configuration menu, these segments will show °C. These LED segments will also indicate a problem with the resistance at the sensor terminals, even if the LED displays are off.

53

Mixed  
Outlet (°C)

50

Return  
(Recirc) (°C)

H I

out of range high

L O

out of range low

OP

open

SH

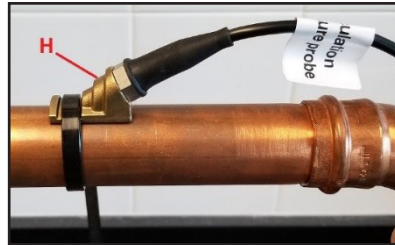
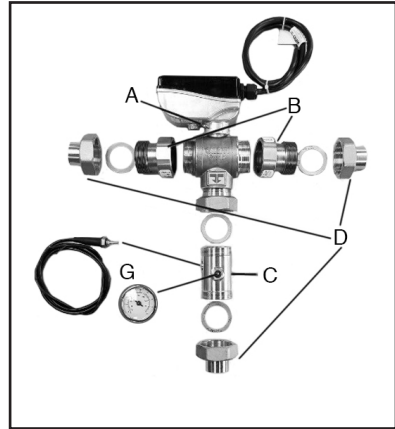
short

6. Relay contact outputs 1, 2 and 4 are for thermal disinfection applications only; ignore if doing mixing control. Relay 3 is a general alarm which can be connected, if desired; see manual for details.

## INSTALLATION AND STARTUP

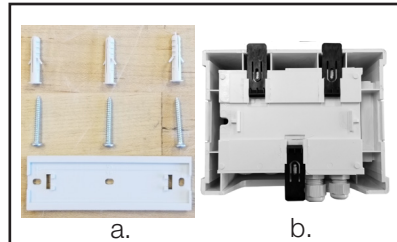
### A. Valve

- a. Separate actuator from valve body by pulling cotter pin.
- b. If ordered (separately), install check valves on hot and cold inlets of valve body (not shown).
- c. Install mixed outlet fitting (with gauge holder) to valve body.
- d. Install tail pieces to valve body.
- e. Install valve into piping; do not install upside down (actuator below piping).
- f. Re-attach actuator to valve body.
- g. Install mixed outlet temperature sensor and temperature gauge into mixed outlet fitting.
- h. Install strap-on recirculation return temperature sensor (see instructions).



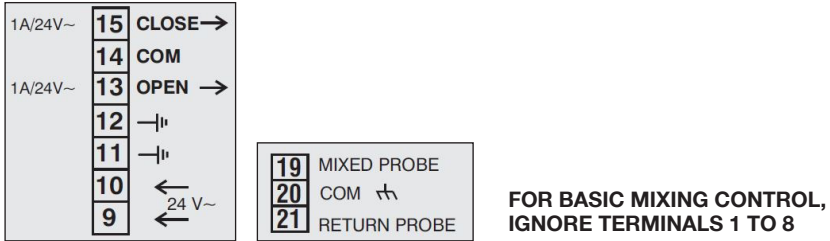
### B. User interface/controller

- a. Surface mount the DIN rail segment (supplied with hardware).
- b. On back of enclosure, open 3 clips, install on DIN rail and snap close the clips.

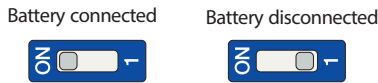


### C. Wiring

- a. Open front cover and loosen screw on front of display, display door will hinge open.
- b. Route all wires into enclosure through bottom holes using the strain reliefs, as shown in the Instructions. Plug unused holes with plugs provided.
- c. Provide supply power from **24 VAC** field provided transformer (6VA minimum). DO NOT POWER UP until all connections are made.
- d. Follow instructions to connect power (9,10), actuator (13, 14, 15), mixed and return temperature probes (19, 20, 21), to the numbered terminal blocks provided in packaging.



- e. Plug wired terminal blocks into appropriate female connections on circuit board.
- f. See manual for wiring of communication network and relay outputs, if used.
- g. Before powering, turn on battery switch per yellow label inside control cabinet.



- h. Close door, tighten screw, power up.



- i. Use OK and up/down arrows to input Date, Time and Region (USA).

- j. After completing date, time and region, press Menu.



- k. The control will start the anti-clog function. The screen will say "Anti-clog RUNNING". Wait for this function to complete before making any other adjustments (if necessary).
- l. After completing the anti-clog function the display will show "ADJUSTMENT RUNNING" as shown on the previous page, if there are no alarms. This is the normal operating mode.
- m. If the default mixed outlet temperature set point 113 °F is not the desired value, push Menu, go into "Settings", and change it (SET1). See Instructions for all other settings.

# NOTES

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Caleffi North America, Inc.  
3883 West Milwaukee Road  
Milwaukee, WI 53208  
T: 414.238.2360 F: 414.238.2366