# LEGIOMIX®evo digital mixing valve with connectivity

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**Technical documentation:**

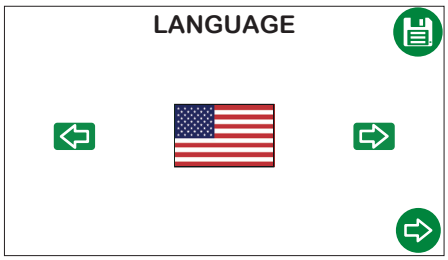
**6003 series** LEGIOMIXevo

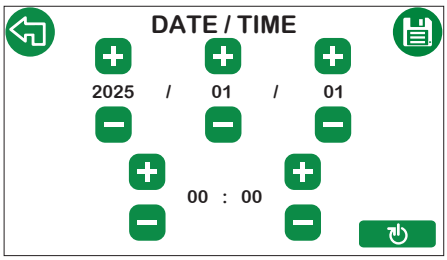
*The full User's Manual be downloaded using the QR code*

## *QUICK START GUIDE*

## 1 Wizard (verify actuator and all sensors are correctly wired before applying 24 VAC power)

### 1.1 First start-up



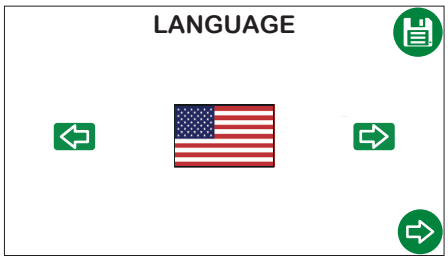

- Set the language and save;
- Click to move to the next screen.

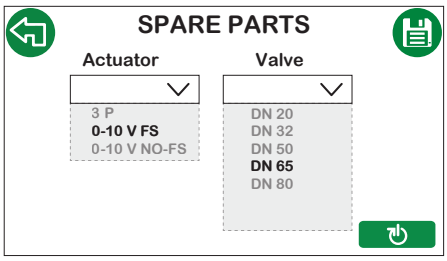
- Set the date/time and save;
- Restart the system to apply the settings.

After restarting, the **Initial loading** screen appears, followed by the **Home** screen.

### 1.2 Replacement controller start-up

In the case of a replacement controller, the procedure is launched, as it is required to identify the actuator used and the valve dimensions.



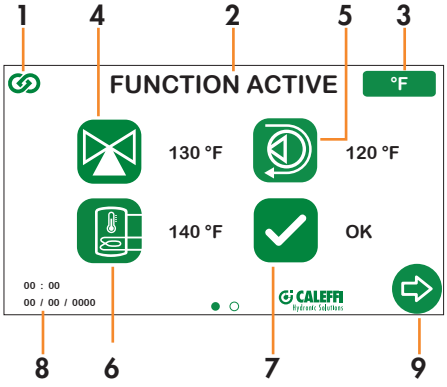




- Set the language and save;
- Click to move to the next screen.

- Select the actuator and the valve body size and save.
- Restart the system to apply the settings.

When this procedure is followed, the controller is set to the valve and actuator, with all default parameters applied. At the end of this configuration procedure, the controller restarts with the **First start-up** wizard.

## 2 Home




1. **Caleffi Cloud symbol:** this appears in color when the device is connected to the Caleffi Cloud, and in grey when not connected;
2. **Status:** description of the function active at that moment (Mixing, Disinfection, Flushing, Anticlog, Shock, Safety valve);
3. **Unit of measurement:** touch the icon to change the unit of measurement for the temperature to degrees Centigrade (°C) or degrees Fahrenheit (°F);
4. **Temperature detected by the mixing sensor:** the icon can turn the following colours:

The mixing valve is opening the cold line to decrease the mixed temperature.

The mixing valve is opening the hot line to increase the mixed temperature.

The mixing valve is remaining still in its position as the temperature is stable at the setpoint value.

The icon can be selected, and allows the mixing temperature to be set quickly. The setting procedure is described in the section **Setting the mixing temperature.**

5. **Temperature detected by the recirculation sensor:** if the sensor is connected and enabled, the icon will appear in green, otherwise it will be shown in grey;
6. **Temperature detected by the storage sensor:** if the sensor is connected and enabled, the icon will appear in green, otherwise it will be shown in grey;
7. **Alarm status:**

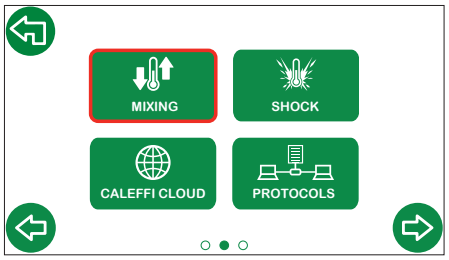
   No alarm.

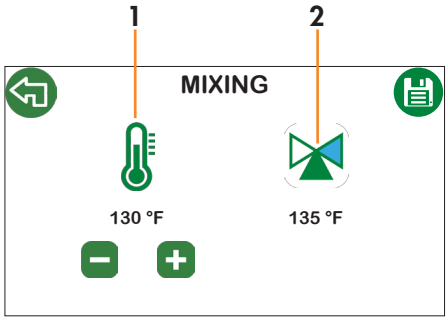
   Alarms present (in this case the icon can be selected and can be used to access the **Alarms** screen quickly).
8. **Date and time:** shows the date and time set on the device;
9. **Scroll arrow:** can be used to move on to the next screen (**Menu**).

**Note:** The display has an automatic shutdown function. After 15 minutes of inactivity, it shuts down automatically. A simple touch will reactivate it.

## 3 Setting the mixing temperature

This function is accessed directly from the **Home** screen or from the **Settings menu**.



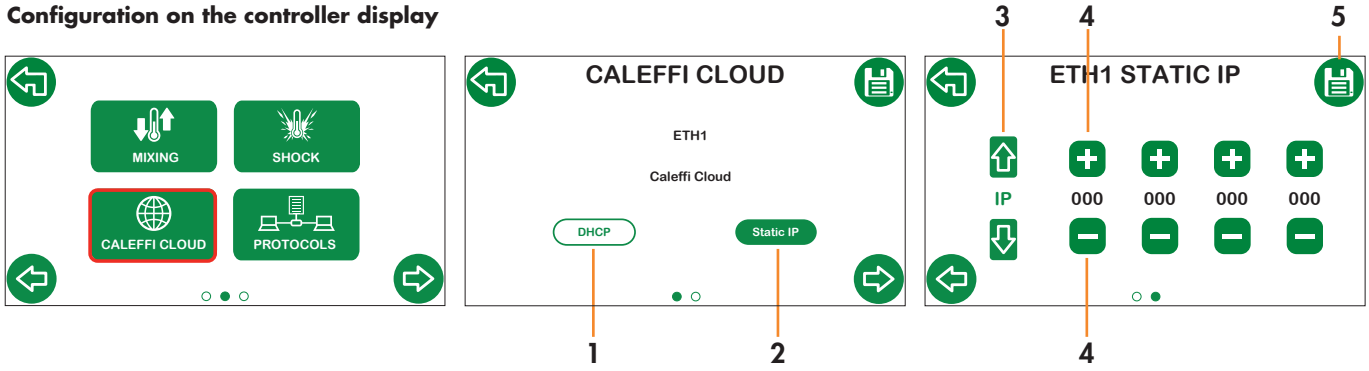

1. Mixing temperature setpoint;
2. Read mixing temperature and actuator direction indication.

## 4 Network settings - Caleffi Cloud

**Procedures prior to controller configuration**

1. Make sure the wiring has been performed correctly;
2. Open ports **8883, 8443, 443, 80** on the Internet network access device (e.g. router, not supplied).

**Configuration on the controller display**




Select the network IP address assignment type:

1. **DHCP:** the IP is assigned automatically by the DHCP server;
2. **Static IP:** manual IP assignment, enabling the next screen for the configuration of network parameters (IP, Gateway, Mask).
3. Select the **IP, Gateway, Mask** parameters using the vertical arrows;
4. Set the parameters using + and -;
5. Save.

Make sure that the Caleffi Cloud symbol appears in green on the Home screen (you may have to wait for a few minutes).

**Caleffi Account access**

1. Download the Caleffi View App from these stores: Scarica su App Store | DISPONIBILE SU Google Play
2. Follow the registration procedure. If you already have an account, log in with the credentials you usually use.
3. Follow the wizard on the app to create a building, users and branches and to add the LEGIOMIXevo(s).

At this point you will be able to access the Caleffi View App to view the regulator operating parameters.
The same credentials can be used to access the Dashboard via the following link:
https://cloud.caleffi.com
As well as showing the operating parameters, the Dashboard can also be used to view detailed charts and tables and to manage regulator settings.

**IMPORTANT!** For safety reasons, changing the operating parameters remotely requires supervision at the device site.

## 5 Default settings

| Parameters | Description | Adjustment range | Factory settings |
|---|---|---|---|
| **BASIC CONFIGURATION** | | | |
| Unit of measurement | | °C - °F | °F |
| Language | | IT - EN - EN(US) - FR - DE - ES - PT - BR - EN(CA) - FR(CA) | EN (US) |
| **DATE / TIME** | | | |
| Date | | | 25/02/2020 |
| Time | | | 00:00 |
| Date format | | | dd/mm/yyyy |
| Daylight saving | Daylight saving settings | EU-USA-OFF | USA |
| **TEMPERATURE SENSORS** | | | |
| Mixed | | Enabled - Disabled | Enabled |
| Recirculation | | Enabled - Disabled | Enabled |
| Storage | | Enabled - Disabled | Enabled |
| **DISINFECTION** | | | |
| Program | Program | 1- 2- 3 | 3 |
| Frequency | Frequency | Daily - Weekly - Disabled | Disabled |
| T mix | Selected setpoint temperature value during disinfection | 105 °F - 185 °F | 140 °F |
| T check | Minimum temperature which should be maintained in order to achieve the correct disinfection level | 105 °F - 185 °F | 135 °F |
| T max | Maximum temperature that can be reached during disinfection | 120 °F - 195 °F | 150 °F |
| Start time | Disinfection scheduled start time (hh:mm) | 00:00-23:59 | 02:00 |
| Duration | Minimum duration of disinfection in order to consider it completed successfully | 0 - 180 min | 30 min |
| Max Duration | Maximum duration of the disinfection function | 0 - 360 min | 60 min |
| **MIXING** | | | |
| T set mix | Set mixing temperature | 68 °F - 185 °F | 120 °F |
| **SHOCK** | | | |
| T mix | Shock temperature | 120 °F - 185 °F | 150 °F |
| Duration | Shock duration | 1-4320 min (3 days as per guidelines) | 5 min |
| Countdown | Countdown to launch | 0-120 s | 60 s |
| **ETHERNET 1** | | | |
| Use | | Caleffi Cloud | Caleffi Cloud |
| IP address assignment | | Static DHCP-IP | DHCP |
| **PROTOCOLS** | | | |
| Active protocol | | Bacnet IP-Bacnet MSTP-ModBus TCP-ModBus RTU | Bacnet IP |
| **ETHERNET 2** | | | |
| IP | | | 192.168.89.22 |
| Gateway | | | 192.168.89.1 |
| Mask | | | 255. 255. 255.0 |
| **RS 485** | | | |
| Address | | 1-247 | 1 |
| Baudrate | | 9600 or 19200 | 9600 |
| Data bits / Stop bits | | | 8 / 1 |
| Parity | | O or E or N | N |
| **PUMP SCHEDULING** | | | |
| Activation | | Enabled - Disabled | Enabled |
| Slot | Slot | 1 - 3 | 1 |
| Start time | Start time (hh:mm) | 00:00 - 23:00 | 00:00 |
| End time | End time (hh:mm) | 00:00 - 24:00 | 24:00 |

| Parameters | Description | Adjustment range | Factory settings |
|---|---|---|---|
| **RELAYS** | | | |
| RL1 - Rec. Pump | Recirculation pump | Enabled - Disabled | Enabled |
| | Status | | OPEN CONTACT |
| RL2 - Flux | Flushing | Enabled - Disabled | Enabled |
| | Status | | OPEN CONTACT |
| | Duration | 0 - 30 min | 2 min |
| RL3 - Safety valve | Safety valve | Enabled - Disabled | Enabled |
| | Status | | CLOSED CONTACT |
| RL4 - Aux | Auxiliary contact | Enabled - Disabled | Enabled |
| | Status | | OPEN CONTACT |
| RL5 - Alarm | Alarms | Enabled - Disabled | Enabled |
| | Status | | CLOSED CONTACT |
| **SAFETY VALVE** | | | |
| T set | Activation temperature for relay opening | 120 °F - 195 °F | 170 °F |
| Trigger delay | Relay activation/deactivation delay | 0 - 60 s | 5 s |
| **ACTUATORS** | | | |
| Default positions | | Cold side - hot side fully open | Cold side |
| **ADVANCED** | | | |
| Anticlog | Activation | Enabled - Disabled | Enabled |
| | Start time (hh:mm) | - | After disinfection / 03:00 |
| T max system | Maximum limit temperature: system protection | Set (in all functions) | 195 °F |

## 5 Regulator alarms encoding

| Codes | Short description | Description |
|---|---|---|
| 001 | Disinfection error | General error during the disinfection procedure |
| 004 | Flushing execution error | Cannot perform the flushing function |
| 010 | Mixing sensor fault | Sensor not connected or not working properly |
| 011 | System protection (mixing sensor) | The mixing sensor is reading a value higher than the maximum temperature of the system |
| 020 | Recirculation sensor fault | Sensor not connected or not working properly |
| 021 | System protection (recirculation sensor) | The recirculation sensor is reading a value higher than the maximum temperature of the system |
| 030 | Hot water storage sensor fault | Sensor not connected or not working properly |
| 031 | System protection (hot water storage sensor) | The hot water storage sensor is reading a value higher than the maximum temperature of the system |
| 055 | Shock function launched | The shock function is in progress |
| 066 | Safety valve | The safety valve relay is active (relay open) |
| 101 | Initializing error | General error during the initializing/loading procedure |
| 102 | Operating system error | General error in running the operating system |
| 103 | Memory error | Cannot manage memory due to parameters and logged data |
| 104 | Loading error | Error while loading operating parameters |
| 105 | Reset error | Error during actuator reset (both 3-point and 0-10 V) |
| 106 | Anticlog function error | General error during the anticlog function |
| 110 | Download error | Error while downloading data |
| 201 | Disinfection fault | Disinfection launched correctly, but failed due to the temperature not being maintained for the minimum set time |
| 204 | Flush error | General error during the flushing function |
| 205 | Shock function error | General error during the shock function |
| 301 | Date and time lost | Date and time lost |
| 401 | OTA (Over The Air) fault | Error in updating firmware via OTA (Over The Air) |

| LED status | | | Meaning |
|---|---|---|---|
| R | G | Mode | |
| ■ | ■ | Steady on | Start-up |
| ✳ | ✳ | Quick simultaneous flashing | Initializing (failsafe) |
| ✳ | | Quick red flashing | Fault |
| | ✳ | Quick green flashing | Handling |
| ✳ | ✳ | Slow red or green flashing | Waiting |

*Depends on version; not all actuators have indicator LEDs.*

PACKAGING