



Made in Italy

LOGICWALL / WALL PRO

WALL MOUNTED INVERTER

The M version can control single-phase pumps or 230V three-phase pumps.

Can be wall-mounted or installed directly on the pipe system (M and T series).

Varies the number of motor revolutions of the pump depending to the water withdrawal from the system in order to maintain constant pressure and flow rate.

Allows to regulate the system pressure and the restart pump pressure.

Stops the pump in case of water shortage and protects it from dry running.

Equipped with automatic restart in case of failure and anti-jamming function.

Ensures energy saving.

Can be installed on surface and submersible pumps.

Standardly supplied with stainless steel pressure sensor.

CONTROL PANEL

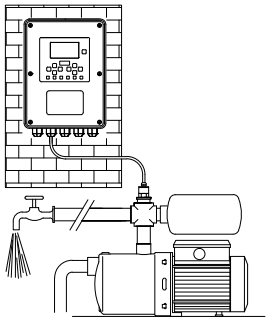
Setting up and starting the LOGICWALL is easy and intuitive thanks to the large and bright LCD display that shows the information and the keyboard that allows to quickly enter and change the operating parameters of the pump.



To save energy, the display turns off one minute after the last operation. To turn the display back on, simply press any button on the keypad.
The LEDs indicating the main phases of the device's operation remain always lit to allow the user to always have the status of the system under control.

Data transmission with NFC technology.
Download our APP Trevitech from Google play or App store and place the mobile phone near the icon NFC to transfer the information from the inverter to your smartphone.

INSTALLATION AND STARTUP



Install the device on the wall or directly on the system pipe.

Connect the supplied pressure sensor, make electrical connections and energize.

Provide the use of an expansion tank sized to the hydraulic characteristics of the system.

Follow the instructions on the screen of the device to start the pump.

OPERATING MODE

The Logicwall has three selectable operating modes:

- **RESIDENTIAL** Standard operation. Ideal for domestic installations and pressure booster sets.
- **IRRIGATION** Allows to set 3 different operating and restart pressures of the pump. Ideal for residential, public irrigation and agricolture.
- **SWIMMING POOL/INDUSTRY** Allows to set up to 3 different fixed pump operating speeds. Ideal for residential, public swimming pools and industry.

AUTOMATIC RESTARTS

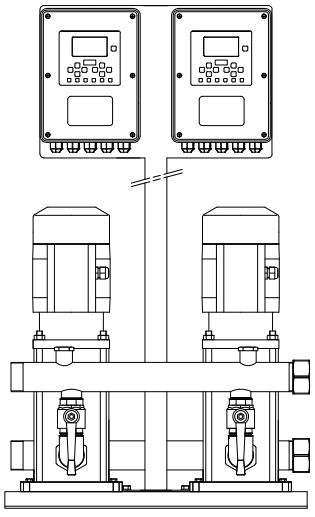
In case of stopping due to a water shortage, the device will automatically make 10 double attempts to rearm over the 24 hours following the failure, each lasting approximately 5 seconds to allow the pump and the system to reload if possible.
The user can try to rearm the device at any time by pressing the Restart button.

ANTI-JAMMING FUNCTION

If for any reason the pump remains idle for 24 consecutive hours, the device will start the pump for about 5 seconds.

BOOSTER SETS

INSTALLATION AND STARTUP



Connect the devices together using the serial ports.
Program the device selected as Master and the slaves following the instructions on the display.

OPERATION

The device starts and stops the pumps according to the opening and closing of the uses. It is possible operate the device in different operating modes:

- **Duty/Assist**: The pumps alternate at each start and work simultaneously when needed.
- **Duty/Stand-by**: The pumps alternate at each start but never work at the same time.
- **Only pump 1 o 2**: Only the pump selected by the user works.

PUMPS ALTERNATION DURING CONTINUOUS OPERATION

If for any reason one or more pumps are working continuously, in order to guarantee uniform wear of the pumps, every sixty minutes of continuous operation of a pump, a forced exchange will be made with another pump on stand-by.
The changeover respects the alternating sequence of all the devices.

VARIABLE MASTER

In case of malfunctioning of the Master device, the system will transfer the operation to the Slave device immediately following the Master. If the original Master device has been reset, it will automatically be reintegrated into the system.

AUTOMATIC RESTARTS E ANTI-JAMMING FUNCTION

For details refer to the paragraph above.

OPTIONALS

- Alarm panel.

TECHNICAL FEATURES

LOGICWALL

	SINGLE-PHASE / SINGLE-PHASE THREE-PHASE			THREE-PHASE /
MODELS	M 8,5	M 11	M 13	T 6
Mains voltage	1 ~ 230 Vac	1 ~ 230 Vac	1 ~ 230 Vac	3 ~ 400 Vac
Acceptable voltage fluctuations	+/- 15%	+/- 15%	+/- 15%	+/- 15%
Frequency (automatic recognition)	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Single-phase pump motor	1 ~ 230 V	1 ~ 230 V	1 ~ 230 V	-
Three-phase pump motor	3 ~ 230 V Δ	3 ~ 230 V Δ	3 ~ 230 V Δ	3 ~ 400 V Y
Maximum pump motor current	8,5 A	11 A	13 A	6 A
Maximum single-phase pump motor power	1,1 kW - 1,5 HP	1,5 kW - 2 HP	2,2 kW - 3 HP	-
Maximum three-phase pump motor power	1,9 kW - 2,5 HP	2,2 kW - 3 HP	3 kW - 4 HP	2,2 kW - 3 HP
Motor soft start	Yes	Yes	Yes	Yes
Motor cable length up to 80 m	Yes	Yes	Yes	Yes
Maximum operating pressure	25 bar	25 bar	25 bar	25 bar
Adjustable system pressure	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar
Adjustable restart pressure	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar
Adjustable minimum flow	Yes	Yes	Yes	Yes
Maximum operating temperature	50 °C	50 °C	50 °C	50 °C
Protection degree*	IP65	IP65	IP65	IP65
Digital manometer	Yes	Yes	Yes	Yes
Digital ammeter	Yes	Yes	Yes	Yes
Dry running protection	Yes	Yes	Yes	Yes
Automatic restart	Yes	Yes	Yes	Yes
Anti-jamming function	Yes	Yes	Yes	Yes
Protection fuse	Yes	Yes	Yes	Yes
Irrigation mode (double pressure)	Yes	Yes	Yes	Yes
Pool/Industry mode (fixed speed)	Yes	Yes	Yes	Yes
Short-circuit protection between phases	Yes	Yes	Yes	Yes
Short-circuit protection between phases and earth	Yes	Yes	Yes	Yes
Amperometric protection	Yes	Yes	Yes	Yes
Voltage surge protection	Yes	Yes	Yes	Yes
Over-temperature protection	Yes	Yes	Yes	Yes
Pressure sensor fault detection	Yes	Yes	Yes	Yes
Flow switch connection	Yes	Yes	Yes	Yes
BMS protocol connection	Yes	Yes	Yes	Yes
Integrated NFC data transfer system	Yes	Yes	Yes	Yes
Connection for float switch and level probe	Yes	Yes	Yes	Yes
Remote ON/OFF connection	Yes	Yes	Yes	Yes
Remote "Pump on" connection	Yes	Yes	Yes	Yes
Remote alarm connection	Yes	Yes	Yes	Yes
Communication between devices	Yes	Yes	Yes	Yes
Overall dimensions (L x H x W) and weight	200 x 275 x 125 - 8 kg			200 x 275 x 125 - 8 kg

* Device protection degree IP65, cooling fan IP20.

Note: The minimum and maximum values of the system pressure and the restart pressure vary according to the pressure sensor used.
Three-phase 230V versions with power up to 27 Ampere are available on request.

LOGICWALL PRO

THREE-PHASE	THREE-PHASE / THREE-PHASE				
T 9	T 12	T 16	T 19	T 23	T 27
3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac	3 ~ 400 Vac
+/- 15%	+/- 15%	+/- 15%	+/- 15%	+/- 15%	+/- 15%
50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
-	-	-	-	-	-
3 ~ 400 V Y	3 ~ 400 V Y	3 ~ 400 V Y	3 ~ 400 V Y	3 ~ 400 V Y	3 ~ 400 V Y
9 A	12 A	16 A	19 A	23 A	27 A
-	-	-	-	-	-
3 kW - 4 HP	5,5 kW - 7,5 HP	7,5 kW - 10 HP	9,2 kW - 12,5 HP	11 kW - 15 HP	15 kW - 20 HP
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
25 bar	25 bar	25 bar	25 bar	25 bar	25 bar
2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar	2 ÷ 25 bar
1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar	1 ÷ 24 bar
Yes	Yes	Yes	Yes	Yes	Yes
50 °C	50 °C	50 °C	50 °C	50 °C	50 °C
IP65	IP65	IP65	IP65	IP65	IP65
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes