

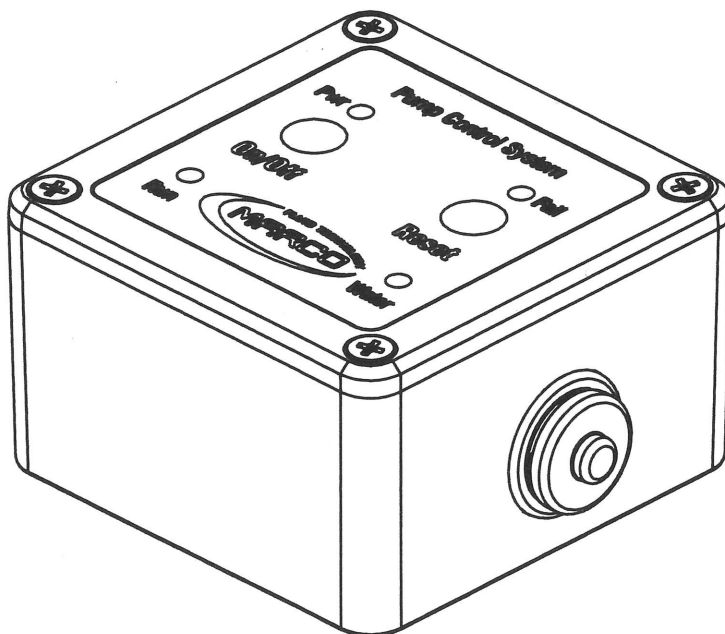
# MARCO<sup>®</sup>

FLUID TECH

**PANNELLO DI CONTROLLO  
PER POMPE ELETTRONICHE  
CONTROL PANEL  
FOR ELECTRONIC PUMP**

**AVVERTENZE D'USO  
INSTRUCTIONS FOR USE**

**165 20 315  
Pannello di Controllo  
Control Panel**



CE

17/09/19 Rev.01

## CONTROL PANEL

The control panel for electronic pumps allows to remotely monitor the operation of the pump and interact with it.

It is in fact possible to see when the pump is On and if there is still liquid to be transferred. Moreover, in case of arrest due to end of liquid or overload you can reset the alarm and restart the system without having to turn off the power. Finally, you can turn Off and On the pump with the simple push of a button. The LED light intensity is editable choosing among 8 different levels by briefly pressing both buttons at the same time: every LED on the panel will turn on and by pressing the right button the light will be stronger, by pressing the left one it will be weaker. To confirm the edit press again both buttons and the panel will go back to its normal functions.

The panel can be mounted or recessed in a circular hole of diameter 70 mm, or with external mounting by fixing the provided square box with two screws.

To operate simply connect the pump with the 3m cable supplied or another 4-wire phone cord and double-ended RJ11/6.

In the back there is a terminal block that allows you to replicate the buttons and LEDs of the panel on an external circuit: this allows you to individually control the features on the dashboard or a device designed by third parties.

Please refer to the the pump manual for a detailed description of LED signals.

## USING BUTTONS

The panel has four buttons, with the following functions:

«ON/OFF» button: manual Standby Enable / Disable

«RESET» button: error Reset

Tab.1 EN		LONG TIME PRESS (> 1,5 s) AT STARTUP
BUTTON	TIME	SHORT TIME PRESS
ON/OFF		Standby Enable / Disable
RESET		Pump and Panel Reset
ON/OFF+RESET		Brightness Change
		Mode selection
		Pump autostart toggle
		No Action

To enter the brightness setting mode of the LEDs quickly press once and simultaneously both keys. Press the "RESET" key to increase brightness and press the "ON/OFF" key to decrease it. To confirm the new setting press both keys once again.

To change the autostart mode of the pump, after powerup, press the «RESET» key until the «FAIL» LED starts blinking.

The panel also provides the possibility of toggling the turn-on mode of the pump after power up, for example if it's needed to have the pump running only after an ON/OFF user input.

To change the turn-on mode (automatic or manual) power off the system, press the RESET button, power on the system while keeping the RESET button pressed until the RED LED starts flashing. The LED's flashing indicates that the mode has changed successfully.

To reverse this setup, repeat the procedure again.

## LEDS INDICATIONS

The panel has four LEDs with the following functions:

LEDS	SOLID LED	BLINKING LED
RUN	Pump in function	Automatic Pump Standby Pump restarts upon user's request
FAIL	Short Circuit detected	Overload detected
POWER	Powered circuit Connected	Powered Not connected
FLOW	Liquid detected	No liquid detection Inhibited
FAIL + FLOW	-	After 1'30" without liquid the pump stops
FAIL + RUN	-	Overload Liquid too viscous or foreign body in the gears
ALL LEDS	LEDS Intensity SetUp Mode	Wrong Voltage

## AUXILIARY FUNCTIONS

The terminal board of the control panels of the first version 0.5 duplicates the functions of LED and push buttons in order to integrate applications of third parties.

From the software version 0.5, the possibility of setting the function of the **P Input** (visible on the scheme) with 4 different configurations has been added:

- 1) Control of the pump on the base of the signal received by a level sensor of European type (**10-180 Ohm**).
- 2) Control of the pump on the base of the signal received by a level sensor of American type (**240-30 Ohm**).
- 3) On-Off of the pump by means of a switch.
- 4) On-Off of the pump by means of a push button.

**In modes 1, 2,3 the pump will be prevented from starting automatically when turned on and it will always need a connected panel to operate. To restore operation when the panel is not connected, this must be connected again and set on the Push Button Mode (4)**

## SELECTION OF THE CONFIGURATION

In order to be able to choose in which operating mode to set the panel, we must start when the system is off.

Holding the **ON/OFF** button down, the mode of configuration change is activated when the **POWER LED** is blinking rapidly.

When the **ON/OFF** button is released, the LED indicating the actual active function will light:

LEDS	FUNCTION
RUN	European Sensor
POWER	American Sensor
FLOW/WATER	Switch Mode
FAIL	Push Button Mode

With each pressure of the **ON/OFF** key the LED corresponding to the active selection will change. To confirm the selection, press the **RESET** key.

The configuration presently used is shown for 1 second at each power On.



## INSTALLATION

It is recommended that the use of the product be according to normative safety standards and also as per the precautions listed below.

### PACKAGING ENVIRONMENTAL DISPOSAL

The user is invited to effect a proper waste separation, in order to facilitate the recycling of the materials of which the packing is composed; disposal like CER 15.01.01/02

### PRELIMINARY CHECKS

Check that there has been no damage to the product during transportation or storage. Cleaned and removing possible dust or residual packaging material. Verify that the available electrical power supply corresponds to the product specification requirements.

## ENVIRONMENTAL DISPOSAL

Do not dispose of the device into household waste. Device that is non longer usable must be collected separately and disposed of in an environmentally correct manner.

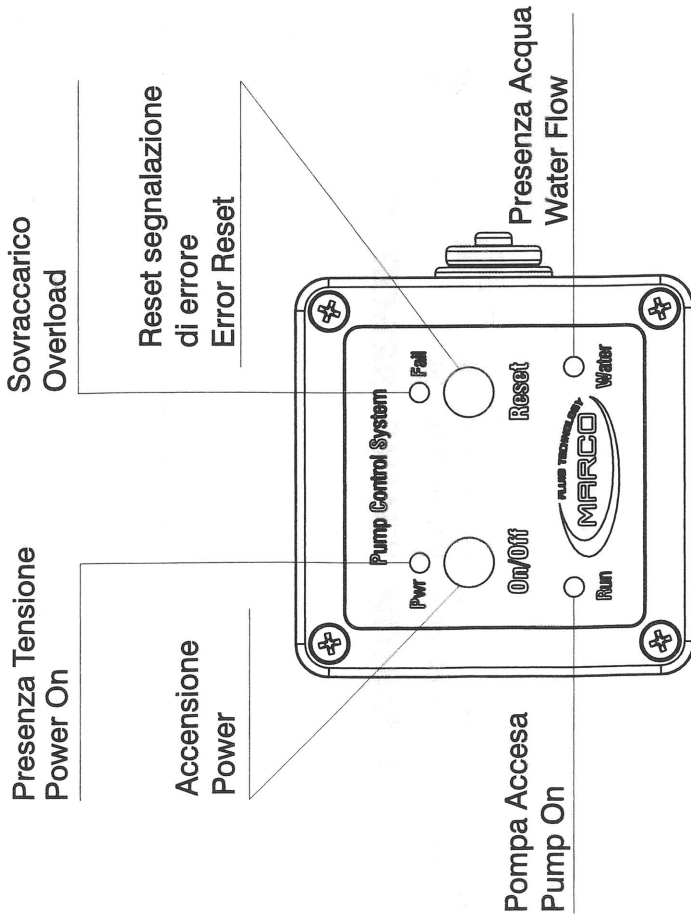
## WARRANTY

1. The Warranty period is 2 years from date of purchase on production of the appropriate sales invoice.
2. Should the original sales invoice not be available, then the 2 year warranty period will be valid from production date.
3. The Warranty becomes null and void in the case of incorrect utilization or disregard of the instructions contained herein.
4. The Warranty only covers original production defects.
5. The Warranty does not cover any related installation costs involved.
6. Transport costs are refundable only in the case where warranty has been duly accepted by Marco Spa and they will be limited to the actual shipment costs between Marco Spa warehouse and the client's delivery address.
7. No credit notes or replacement items will be issued prior to the receipt and proper testing of any Marco goods that are deemed faulty.

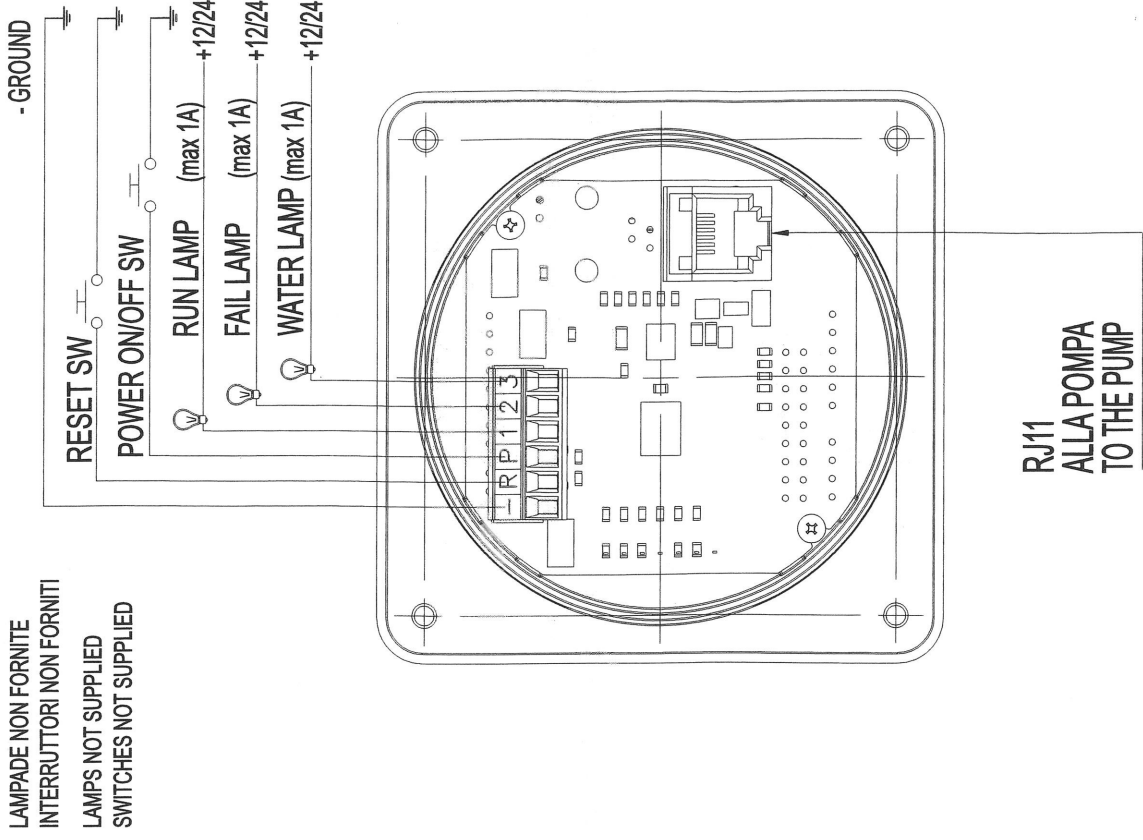
## REVISION HISTORY

Tab.3 EN			
DATE	REVISION	DESCRIPTION	
14/03/2016	0	Document creation	
17/09/2019	1	Key functions added	

PANNELLO DI CONTROLLO / CONTROL PANEL



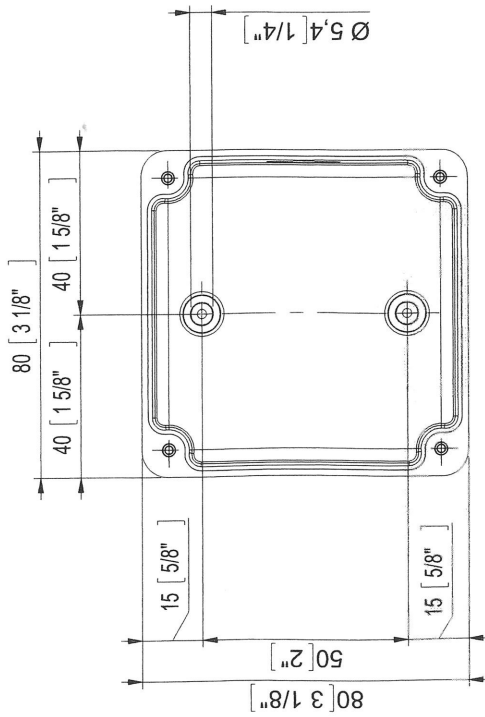
SCHEMA DI COLLEGAMENTO / CONNECTING LAYOUT



## SCHEMA DI FORATURA / HOLE SKETCH

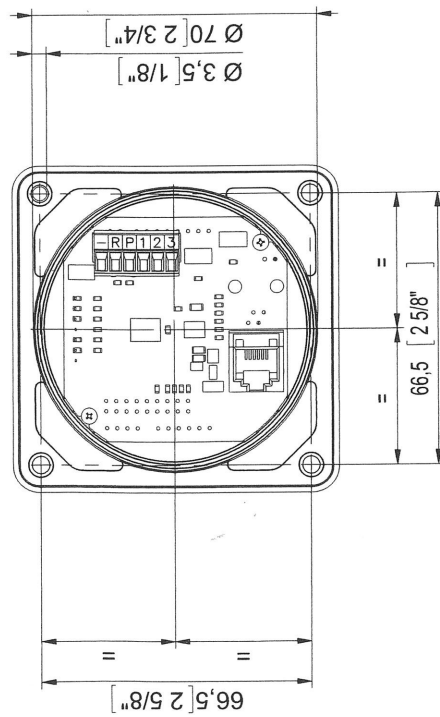
Per il fissaggio del pannello di controllo con la sua scatola di contenimento, forare il piano di appoggio seguendo la dima di foratura sottostante:

To fix the control panel with its box, drill the surface following the template below:



Per il montaggio del pannello di controllo all'interno di una plancia strumenti, forare la plancia seguendo la dima di foratura sottostante:

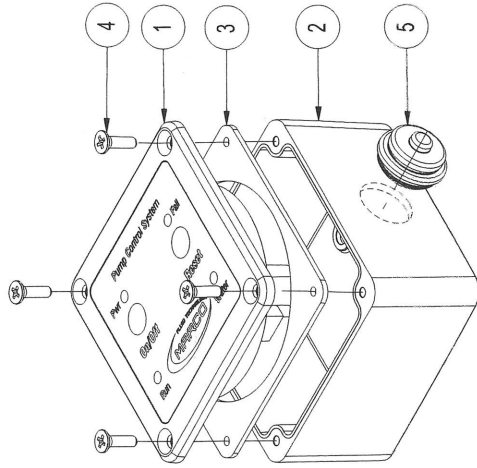
To fix the control panel on a dashboard, drill it following the template below:



## SCHEDA DI ASSEMBLAGGIO / EXPLODED VIEW

Pos.	Q.tà	Descrizione
1	1	PANNELLO DI CONTROLLO
2	1	SCATOLA
3	1	GUARNIZIONE
4	4	VITE
5	1	PASSACAVO

Pos.	Q.ty	Description
1	1	CONTROL PANEL
2	1	BOX
3	1	GASKET
4	4	SCREW
5	1	GROMMET



## INGOMBRI / DIMENSIONS

