



## INSTALLATION AND USE

**E1/E2** are **multifunctional electronic control panels** designed to manage one or two pumps in residential, commercial, or industrial settings.

Thanks to their versatility, they provide protection and facilitate operations such as pressurization, filling, drainage, and emptying, accommodating both clean and wastewater applications.

## PRODUCT DESCRIPTION

**E1/E2 electronic control panels** offer unmatched adaptability for various systems by featuring **six selectable operating modes**. These modes facilitate comprehensive pump management and protection through both analogue and digital inputs, alongside electrical parameter monitoring.

Equipped with an intuitive **keypad and LCD display**, the panels simplify programming and configuration of pump settings, protections, and operational modes through a user-friendly guided process.

These panels feature **dry-running protection**, managed through power factor (**cosφ**), current control, or by activating a float or level probe. The integrated self-learning Wizard simplifies the system initialization by automatically storing key electrical parameter values, ensuring a quick and straightforward setup.

When managing two pumps, the **E2** panel automatically switches between them, reducing wear and maximizing efficiency in their operation.

## MAIN FEATURES

- ✧ Power supply:
  - 1~ 230V±15% (E1/E2 MONO)**
  - 3~ 400V±15% (E1/E2 TRI)**
- ✧ Frequency: **50/60 Hz**
- ✧ door lock main isolating switch,
- ✧ Motor and auxiliary circuit protection fuse
- ✧ **ABS** outer container
- ✧ **IP55** protection degree
- ✧ Ambient temperature: **-5 °C ÷ +40 °C**
- ✧ Relative humidity **50% at 40 °C**

## INPUTS

**E1/E2 electronic control panels** allow pumps to be managed via analogue and digital inputs:

- ✧ Pressure switches
- ✧ Floats
- ✧ Remote contacts
- ✧ Run/stop floats
- ✧ Level probes
- ✧ Pressure transducers

## CONTROLS

- ✧ Minimum and maximum operating current control
- ✧ Minimum and maximum supply voltage control
- ✧ Input phase failure or inversion control

## **E1** Electronic control panel for one single pump

TYPE	VOLTAGE	CURRENT POWER (*)	FUSES PROTECTION
<b>E1 MONO</b>	1~ 230 V - 50/60 Hz	up to 18 A	20 A
<b>E1 TRI/1</b>	3~ 400 V - 50/60 Hz	up to 18 A	20 A
<b>E1 TRI/2</b>	3~ 400 V - 50/60 Hz	up to 25 A	32 A

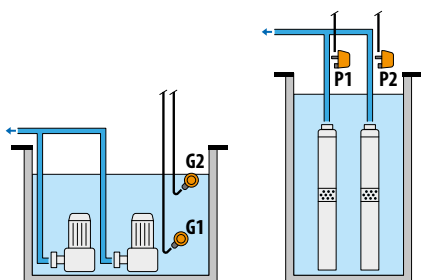
(\*) The rated current value refers to a single electric pump

## **E2** Electronic control panel for two pumps

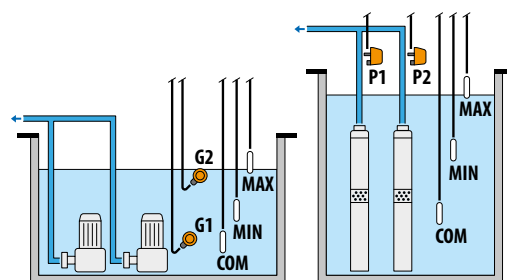
TYPE	VOLTAGE	CURRENT POWER (*)	FUSES COVER
<b>E2 MONO</b>	1~ 230V - 50/60 Hz	up to 18 A	20 A
<b>E2 TRI</b>	3~ 400V - 50/60 Hz	up to 16 A	32 A

### OPERATING MODE

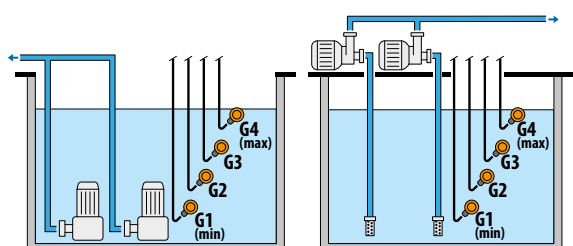
#### **MODE 1:** DRAINING AND PRESSURIZING Dry run protection via cosq or current



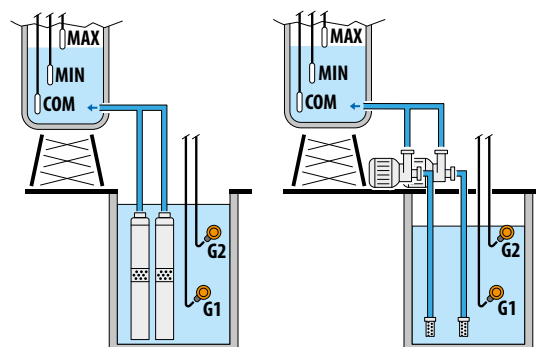
#### **MODE 2:** DRAINING AND PRESSURIZING Dry run protection via level probes



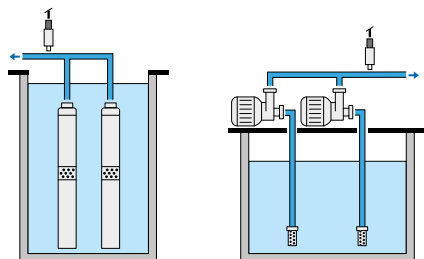
#### **MODE 3:** DRAINING Dry run protection via minimum float switch



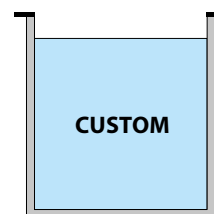
#### **MODE 4:** FILLING Dry run protection via minimum float switch



#### **MODE 5:** PRESSURIZING Dry run protection via cosq or current



#### **MODE 6:** CUSTOMIZED:



### DIMENSIONS AND HOLE SPACING FOR MOUNTING

