



Complete solutions for many needs



Plug-in Control Module

Very easy setting.

Includes complete electronic control for the Smart Pump Controller. Under/overload, ammeter, level/pressure control, alarms, pilot lights and LED display.

Able to operate the pump in manual mode without the module.



ECO Pump

The new low-cost device for digital control and protection of one pump. Maximum protection in less space. One single device for single and three phase pumps, 230/400Vac. Very easy setting thanks to the intuitive design of new TPM6.



Pump Check

Ideal for preventive maintenance, this wireless tool captures the pump status log from the control module, providing important information for after sales support and service.



Plug-in Control Module

Wide range for any application.



New TPM Modular Range

- DIN-rail mounting.
- For one pump or two pumps, dual voltage 230/400Vac or single voltage 24Vac, 1/3-Phase.
- Ask for the following controllers:
 - TPM6 for wells, boreholes or tanks.
 - TPM6-DRAIN for lift stations.
 - TPM-POOL for swimming pools.



Simplex Pump Controller

- Wells, boreholes or tanks.
- Lift stations.
- Booster sets.
- Rainwater harvesting.



Control Cabinet

Feeder pillar type.

Includes pump controller and options, GSM, flashing beacon, heating, power distribution box.

Control Panel for 1 or 2 pumps.

- Lift stations.
- Booster sets.

Duplex Pump Controller

- Lift stations.
- Booster sets.



Zero V1Z

BOREHOLES - 1 PUMP



240x190x110mm / 1,8kg / IP65

Single voltage: 230 or 400Vac

Up to 18A

2 Probes / 1 Probe with time delay /
Without Probes^(*)

Over/Underload / Phase loss

External on/off control

Zero Digital V1ZD

BOREHOLES - 1 PUMP



240x190x110mm / 1,8kg / IP65

Single voltage: 230 or 400Vac

Up to 18A

Without Probes^(*)

Over/Underload / Phase loss

External on/off control

Alarm relay

Zero Sensor V1ZS

BOOSTER SETS - 1 PUMP



240x190x110mm / 1,8kg / IP65

Single voltage: 230 or 400Vac

Up to 18A

4-20mA Pressure sensor

Overload / Phase loss / Overheat

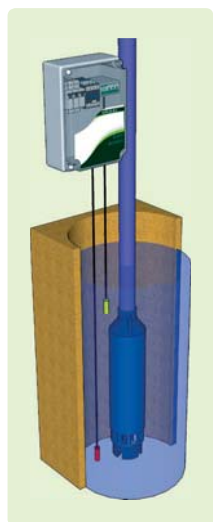
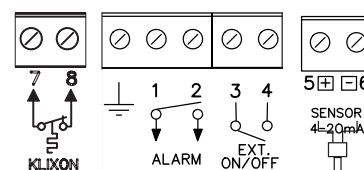
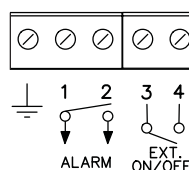
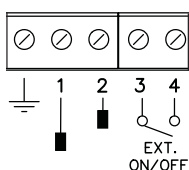
External on/off control

Alarm relay

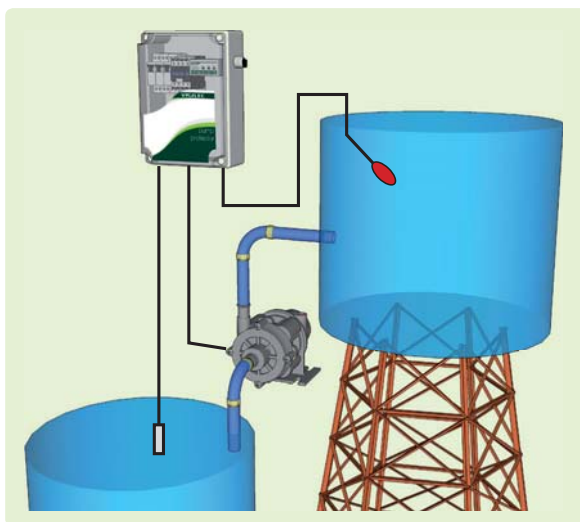
Successive starts protection

Zero flow protection

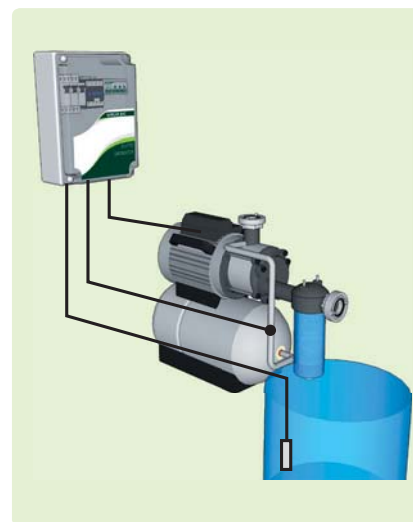
^(*)Dry running detection by motor underload



Wells



Wells & tanks control



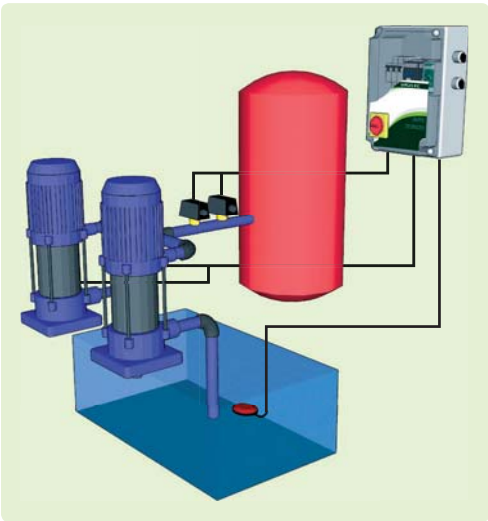
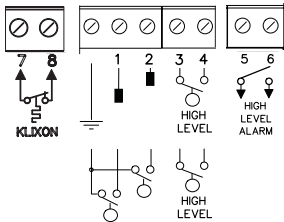
Water supply, irrigation

**Zero Drain
V1ZB**

LIFT STATIONS - 1 PUMP



- 240x190x110mm / 1,8kg / IP65
- Single voltage: 230 or 400Vac
- Up to 18A
- Float switches / Probes
- Overload / Phase loss / Overheat
- Alarm relay + Buzzer
- Jammed impeller preventive system



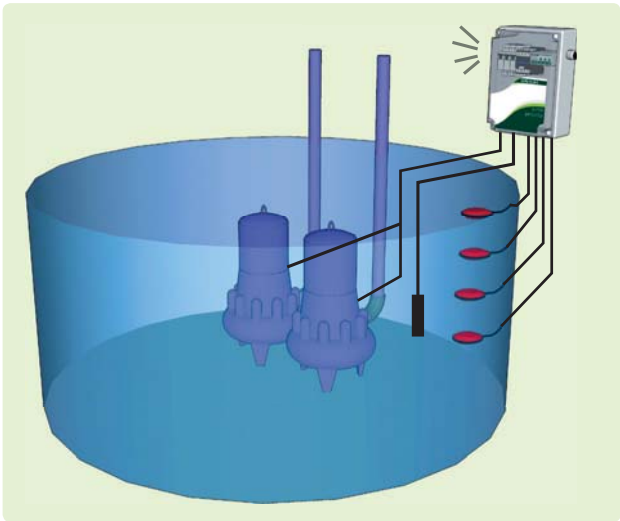
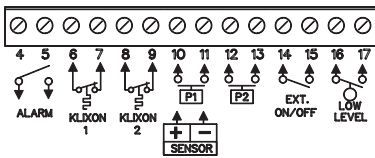
Booster pump sets

**Zero Press Doble
Sensor - V2ZPS**

BOOSTER SETS - 2 PUMPS



- 300x220x120mm / 2,8kg / IP65
- Dual voltage: 230/400Vac
- Up to 12A per pump
- Pressure switches / 4-20mA Sensor
- Overload / Phase loss / Overheat
- External on/off control
- Alarm relay
- Smart alternating
- Starts / Stops in cascade
- Successive starts protection
- Zero flow protection
- Optional modules: PTC probes, Phase sequence relay



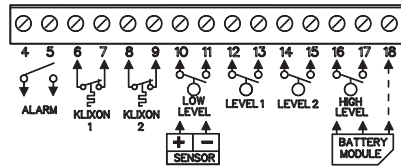
Lift stations

**Zero Drain Doble
Sensor - V2ZBS**

LIFT STATIONS - 2 PUMPS



- 300x220x120mm / 2,8kg / IP65
- Dual voltage: 230/400Vac
- Up to 12A per pump
- Float switches / 4-20mA Probe
- Overload / Phase loss / Overheat
- Alarm relay + Buzzer
- Smart alternating
- Starts / Stops in cascade
- Jammed impeller preventive system
- Optional modules: Alarm battery, Conductive probes, PTC probes, NC alarm float, Phase sequence relay

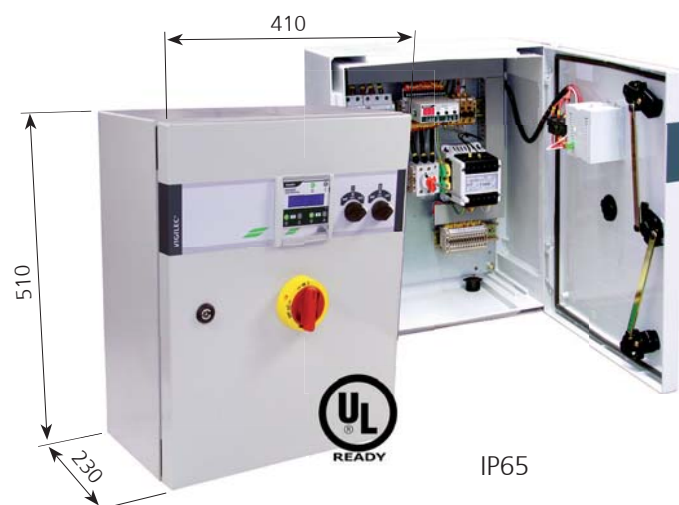


Control Cabinet



This control cabinet, with fiber glass feeder pillar, is suitable for outdoor pump station installations. Includes one Vigilec Pump Controller, heater, power distribution box, external alarm flashing beacon and optional GSM remote alarm. Delivered ready to be installed.

Control Panel



Max. Load Current	Control Cabinet DOL	Control Panel DOL	Control Panel Soft Start
2 x 12A	CCD 212	CPD 212	CPS212
2 x 16A	CCD 216	CPD 216	CPS216
2 x 23A	CCD 223	CPD 223	CPS223
2 x 30A		CPD 230	CPS230
Other ratings under request			

The control panel includes, power contactors, transformer, main switch, TPM Vigilec modular controller, selectors M-0-A, breakers and control terminals. IP65 FG enclosure suitable for wall or bench mounting. Delivered ready to be installed.

Internal Data & Layout

User safety

24V isolated control circuits

Stability

Against temperature changes

Improved protection

Against overvoltages

- Transformer 24V
- Buzzer alarm
- Current transformers
- Breaker (option)
- Main switch



- Vigilec control module
- DIN space options
- Power contactors 12, 23, 30A
- Selector switches M-0-A modes
- Control terminal blocks
- Large area for wiring connections

	Weight	Size (mm)
V1...	1,8 kg	240 x 190 x 110
V2...	2,8 kg	300 x 220 x 120

IP65

Pump Check

Preventive maintenance

It captures the following data:

- Working hours.
- Number of starts.
- Motor current consumption.
- Alarms and tripping current.
- Control module identification code.

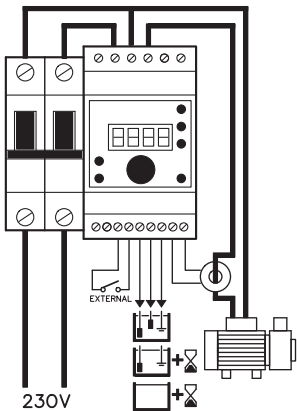


Pump Check data reader



TPM6 controller & ECO-PUMP panel

- > Applications in wells, boreholes and water tanks for watering systems, irrigation, washing, etc (clean waters).
- > Digital protection and control of the pump.
- > Dual voltage 230/400Vac.
- > For three-phase or single-phase pumps.
- > Protections overload, underload, phase loss and excessive starting frequency.
- > Level control by conductive probes or motor underload.
- > Low level output.
- > Alarm output.



Supply voltage	230/400Vac - 50/60Hz
LED Pilots	Low level, Pump ON, Maximum current, Minimum current, Reset time, Alarm
Protections	Overload, Underload, Phase loss, Excessive starting frequency
Displayed information (4-digit LED display)	Pump consumption, Maximum current, Minimum current, Reset time, Alarms
Pump output	12A in 1-phase (up to 40A in 1/3-phase with a contactor)
Low level output (LEVEL)	230/400Vac - 5A maximum
Alarm output (ALARM)	230/400Vac - 5A maximum
Maximum current setting	Auto - 0,6...40A (trip in 7 s)
Minimum current setting	OFF - 0,5...40A (trip in 4 s with 20 s starting delay)
Reset time setting	OFF - 3...240 min
Maximum terminal cross-section	4mm ² (power) / 2,5mm ² (control)
Dimensions / IP	8 modules / IP65

Ask also for the following electronic controllers and pump control panels:

- TPM6-DRAIN controller and ECO-DRAIN panel: Simplex or Duplex pump control panels for lift stations (drainage and sewage waters).
- TPM-POOL controller and ECO-POOL panel: Simplex pump control panels for swimming pools.

Control module

Easy settings and complete status display

UNDERLOAD setting

OVERLOAD setting

3-digit display

- Amps
- Reset time
- Pressure
- Alarms
- Settings, etc

POWER ON pilot

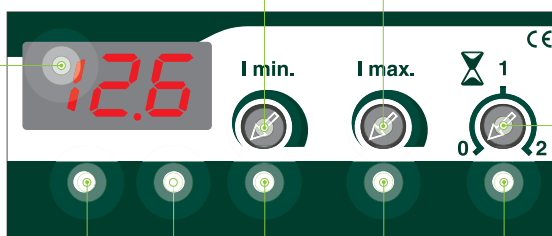
PUMP ON pilot

UNDERLOAD alarm pilot

RESET time setting
(0-120 minutes)

LOW LEVEL alarm
pilot

OVERLOAD alarm pilot



Vigilec Zero Digital Model

Control options

Available from **toscano**

Conductive probes



SNA: Yellow
SNR: Red

Pressure sensor 4-20mA



MBS1900, 0-10 bar
MBS1900, 0-16 bar

Level probe 4-20mA



SN420, 2 m
SN420, 5 m

Float switch



SM05: 5 m
SM10: 10 m

GSM remote control



GSM-2: 2 in / 1 out
GSM-4: 4 in / 2 out

Radio remote control



THR1C: 2 in / 2 out
THR420: 4/20 in/out

Phase monitor



UF3

Pressure switch



PR1: 0-4 bar
PR2: 0-10 bar

• **toscano**

www.toscano.es - info@toscano.es

