



PUMP RELAYS AND PROTECTION BOXES

Single phase and three-phase pump starting and protection boxes

APPLICATIONS

This pump relay is a pump starting relay, but also protects pump against failure in the power supply; and over and/or underload. It is suitable for landscape applications.

FEATURES

- Starting relay for single –phase (vigilec 1) or for single and three –phase pumps (vigilec 2) surface or submersible pumps.
- Pump capacitor site provided inside control box for submersible pumps (vigilec 1) . Control fuses (vigilec 2) .
- Dry running protection (3 modes):
 - directly without probes*: dry running detection and time-lag before restarting of 15 minutes
 - 2 probes (low and high level).
 - 1 probe* (low level) with time-lag before restarting of 15 minutes.
- Electronic overload (alarm trip in 7 s.) and underload (alarm trip in 3 s.) protection relays, adjustable from 0 to 18 A.
- Pump remote control (start/stop) from an irrigation controller and other control devices.
- Supplied with 2 probes (low/high level).
- Pumping flow control.
- Anti-blocking system: every 24 hours, one second running to avoid jammed impeller in long rest period (only AUTO position).
- HAND-0-AUTO selection by push buttons.
- Alarm reset button (RESET).
- Indicator lights of VOLTAGE, PUMP RUNNING, LOW LEVEL WATER and MOTOR ALARM.
- All controls in low voltage (< 24 V) for greater safety.
- Supplied with 2 cable ties for mounting of capacitor.
- Storm proof
- Multicontrol

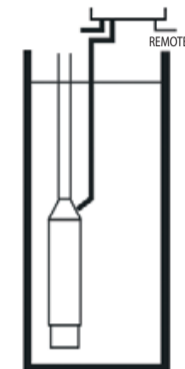
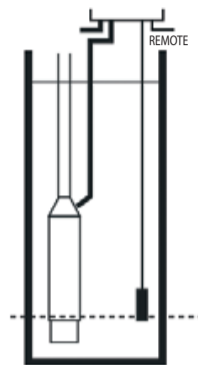
**Note: When it is a submersible pump, this unit can operate with low level probe only or without probes.*

SPECIFICATIONS

- Main supply voltage : 230Vac-50/60 Hz (vigilec 1) - 230/400Vac – 50/60 Hz (vigilec 2)
- Permissible voltage fluctuations : +/- 20% . Auto trigger-off after that +30%
- Maximum current 18Amp AC3(vigilec 1) – 16Amp AC3 (vigilec 2)
- Overload current adjustment :0-18 A (adjustable) for vigilec 1 – 0-16 A (adjustable) for vigilec 2 .
- Low current trigger (underload) :0-18 A (adjustable) for vigilec 1 – 0-16 A (adjustable) for vigilec 2 .
- Probe operating voltage: 24 V
- Probe sensitivity: 9 Kohm.
- Remote control connection: Contact or voltage 6 to 400VAC/VDC



ONE PROBE



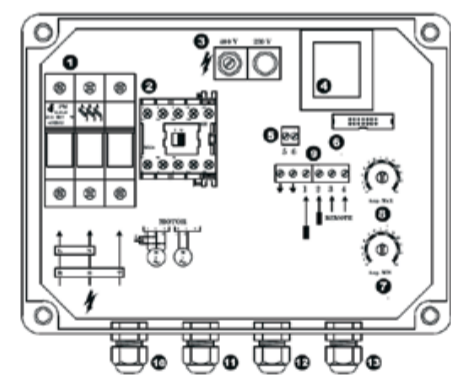
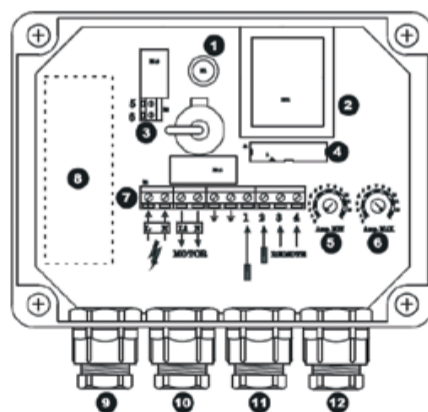
- Terminal blocks: 4 mm²
- Mounting: Clevis wall mounting
- Protection: IP56
- Operating temperature range: -10 +55 °C
- Weight : 850g for vigilec 1 – 1,5 Kg for vigilec 2

DIMENSIONS

Vigilec 1 :	Vigilec 2 :
Width: 20 cm	Width : 25,5cm
Height: 15 cm	Height :19,5 cm
Depth: 7,8 cm	Depth : 9,5 cm

MODEL

- Vigilec 1 : Single –phase pump starting & protection box
- Vigilec 2 : Single -Three-phase pump starting & protection box



VIGELEC 1

- 1 Control fuse (0,1 A)
- 2 Transformer
- 3 Air alarm output contact
- 4 Flat cable connector
- 5 Minimum current adjust
- 6 Maximum current adjust
- 7 Terminal block
- 8 Space for capacitor (borehole pump)
- 9 Input main supply gland
- 10 Output motor gland
- 11 Input probes and ground gland
- 12 Input remote gland

VIGELEC 2

- 1 Main fuses
- 2 Contactor
- 3 Control & selection voltage fuse(0,1 A)
- 4 transformer
- 5 Air alarm output contact
- 6 Flat cable connector
- 7 Minimum current adjust
- 8 Maximum current adjust
- 9 Terminal block
- 10 Input main supply gland
- 11 Output motor gland
- 12 Input probes and ground gland
- 13 Input remote gland