

HC2 HC2-M HC2-T

Electronic Pressure Switch



Electronic pressure switch

This HC2 is an electronic pressure switch with an integrated digital pressure gauge. It can manage the start and stop of single-phase electric pumps up to 3 HP (2,2 kW). Cut-in and cut-out pressure implementation can be set easily and accurately through user friendly control panel. Wiring is carried out identically to a conventional electromechanical switch. It can operate as a differential pressure switch or as an inverted pressure switch.

HC2 includes also instantaneous current lecture and it can be mounted individually or in groups of 2 pumps synchronized and operating in cascade mode with alternated sequence of operation. This version controls and manages the over-current, the dry-running protection of the pump and fast cycling protection.

hydroo®

Operating characteristics

- ART function (Automatic Reset Test). If the device has been stoped due the action of the safety system against dry operation, the ART tries to connect the pump, with a programmed periodicity because the water supply could have been restored.
 - Sleep mode with low power consumption.
 - Inner pressure transmitter.
 - Integrated pressure gauge with bar and psi instantaneous display.
 - User friendly control panel with 3-digits display, led-lights and pushbuttons.
 - Dry-running protection by current (for types HC2 and HC2- T) and for minimal pressure (for type HC2-M).
 - Rapid-cycle alarm: when the hydro-pneumatic tank has lost the air and frequent start-stops are produced an alarm is activated and is delayed the start.
 - Overload alarm on types HC2 and HC2-T.
 - Manual start.
 - Operation modes: differential, inverted differential and synchronized (only for HC2 and HC2-T).
 - EMC certified and Electrical Safety certified.
 - RoHs and WEEE compliant.
- HC2-T version:
- Electronic pressure switch integrated in a 3 ways fitting.
 - Inner non-return valve.

Technical specifications

HC2 HC2-M HC2-T

Power supply voltage

~1 x 110-230 Vac

Frequency

50/60 Hz

Max. current

16 A

Maximum pump power

2,2 kW (3 HP)

Starting pressure range (cut-in)

0,5 ÷ 7 bar

Stop pressure range (cut-out)

1 ÷ 8 bar

Maximum differential

7,5 bar

Minimum differential (adjustable)

0,5 ÷ 1,5 bar

Factory setting (cut-in/cut-out)

3 / 4 bar

Protection degree

IP55

Max. water temperature

50 °C

Max. environment temperature

60 °C

Net weight (without cables)

HC2 & HC2-M: 0.4Kg

HC2-T: 0.6Kg

Connections/Installation

HC2 & HC2-M: G1/4" F / NPT1/4" F

HC2-T:

Inlet thread: G1" M

Outlet thread: G1" F

Pneumatic tank thread: G1" F

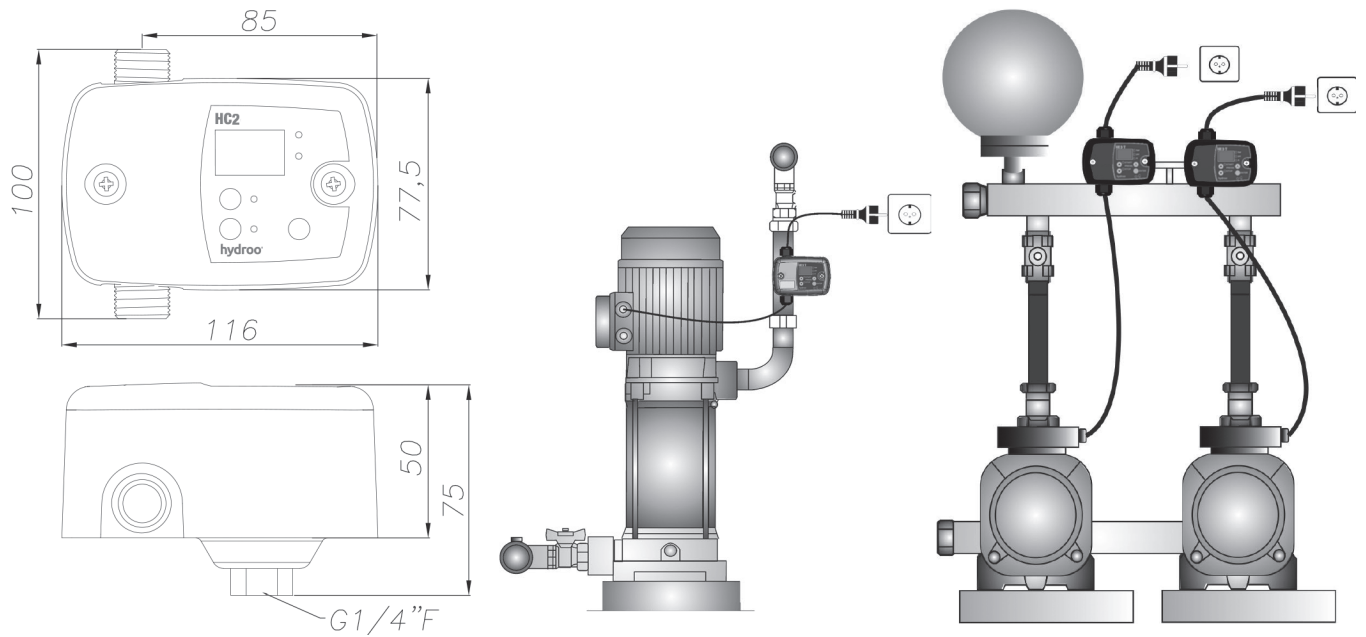
Control panel



- 3 digits display:
 - Operating mode: Instantaneous pressure.
 - Set mode: Cut in and cut out pressure.
 - Bar-psi led-lights (green):
 - Operating mode: Bright bar or psi.
 - Pump on: Flashing bar or psi.
 - Star-Stop led-light (green):
 - Bright: displayed Pressure start or Pressure stop.
 - Flashing: Setting Pstart or Pstop.
 - Push Buttons ▲ ▼ :
 - Increase or decrease configuration parameters.
 - ENTER push-button:
 - Manual start and stop.
 - Confirm configuration value.
- Only for HC2 and HC2-T:
- "A" led-light (yellow):
 - Bright: Displayed instantaneous current consumption of the pump.
 - Flashing: Setting maximum current of the pump.
 - Alarm led-light ⚠: dry-run, over current, fast cycling
 - "A" push-button: set and display current intensity.

HC2-M / HC2

Dimensions and Installation



HC2-T

Dimensions and Installation

