Switchmatic 1
Switchmatic 2 complet pump protection

PATENT filed for international patent PENDING

Electronic pressure switch. Patented model.

This unit SWITCHMATIC 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. SWITCHMATIC 2 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 patented version controls and manages the overcurrent, the dry-running protection of the pump and fast cycling protection. The unit SWITCHMATIC 2A includes an output for alarms.





SWITCHMATIC 1

SWITCHMATIC 2

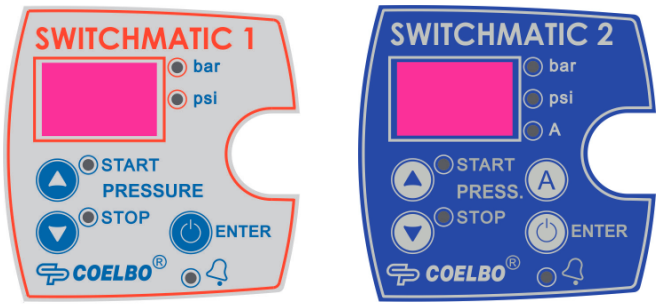
SWITCHMATIC 2A

REGISTERED DESIGN

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 type Switchmatic 2) and for minimal pressure (for type Switchmatic 1).
- Rapid-cycle alarm: when the hydropneumatic tank has lost the air and frequent start-stops are produced an alarm is activated and is delayed the start.
- Overload alarm (only type SWITCHMATIC 2).
- Volt-free contact for monitoring the alarms displayed in screen originated by irregularities or problems of the system (only type SWITCHMATIC 2A).
- Manual start.
- Operation modes: differential, inversed differential and synchronized (only for Switchmatic 2).
- EMC certified and Electrical Safety certifed.
- RoHs and WEEE compliant.

CONTROL PANEL



- 3 digits display:
  - Operating mode: Instantaneus 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 Psart or Pstop.
- Push Buttons ▲▼: Increase or dicrease configuration parameters.
- ENTER push-button:
  - Manual start and stop.
  - Confirm configuration value.
- Alarm led-light (red): dry-run and fast cyclying.

Only for SWITCHMATIC 2

- "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 cyclying
- "A" push-button: set and display current intensity.

TECHNICAL CHARACTERISTICS

	SWITCHMATIC 1 SWITCHMATIC 2
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	0,5 ÷ 1,5 bar
Factory setting (cut-in/cut-out)	3 / 4 bar
Protection degree	IP55
Max. water temperature	40 °C
Max. environment temperature	50 °C
Net weight (without cables)	0,4 kg
Inlet thread	G1/4" F / NPT1/4" F

DIMENSIONS

