

# Switchmatic 1

# Switchmatic 2 complet pump protection

Electronic pressure switch. Patented model.

This unit **SWITCHMATIC 1** 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** also includes 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-run protection of the pump and fast cycling protection.

The unit **SWITCHMATIC 2/in-out** includes an output for alarms and an input for external level connection.



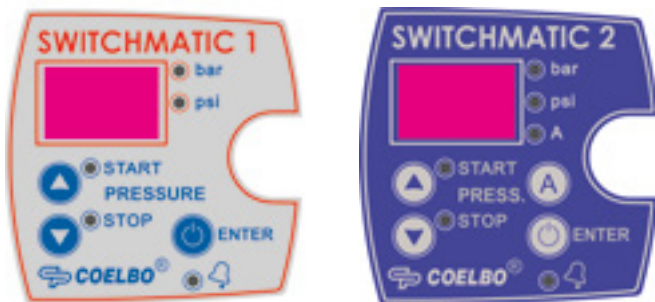
**SWITCHMATIC 1**  
**SWITCHMATIC 2**  
**SWITCHMATIC 2/in-out**

## OPERATING CHARACTERISTICS

- Operation modes: differential, inverted and synchronized (only **SWITCHMATIC 2**).
- Inner pressure transmitter.
- Integrated pressure gauge with bar and psi instantaneous display.
- User friendly control panel including manual start push-button, 3-digits display, led-lights and pushbuttons.
- Dry-running protection by current (**SWITCHMATIC 2**) and by minimal pressure (for type **SWITCHMATIC 1**).
- **ART** function (Automatic Reset Test). If the device has been stopped 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.
- 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**).
- Sleep mode with low power consumption.
- Advanced configuration menu: differentials, delay settings and other parameters.
- **SWITCHMATIC 2/in-out** also includes:
  - Volt-free contact for monitoring the alarms displayed in screen originated by irregularities or problems of the system.
  - Float switch connection, for minimum level detection in the suction tank, its use is optional. This system is independent of the dry-running safety system.
- **Register of operational parameters.** Information about: operating hours, counter of starts, counter of connections to the power supply.
- **Register of alarms.** Information about type and number of alarms.



## 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.
- Alarm led-light (red): dry-run and fast cycling.

### 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 (red): dry-run, over current, fast cycling
- "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	0,3 ÷ 0,5 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)	0,88 lbs
Inlet thread	G1"

## DIMENSIONS

