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

REGISTERED DESIGN
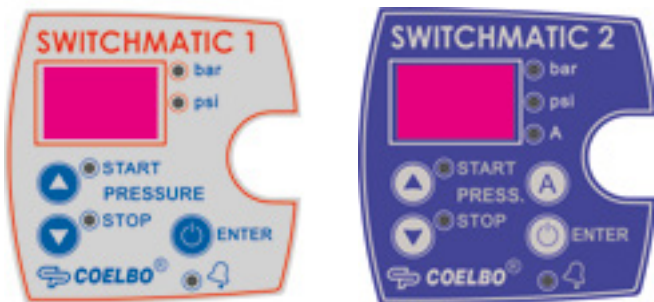
WRAS APPROVED PRODUCT

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 includinf 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 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.

- 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: 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 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 🔔: 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)	0,4 kg
Inlet thread	G1/4"F rotative nut NPT1/4"F

DIMENSIONS

77,5

116

50

75

G1/4"f
(NPT 1/4" f)