

Panels for SUBMERSIBLE Pumps

SINGLE PHASE PUMPS

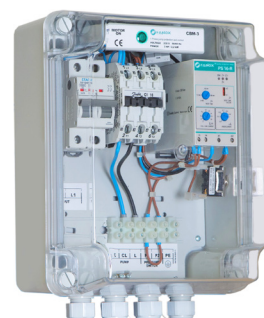
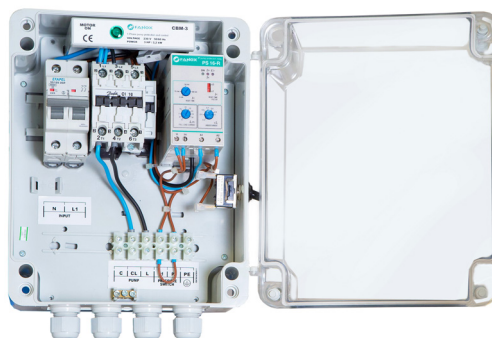
- Thermal memory of motors heating and cooling cycles.
- Automatic reset, adjustable from 2 to 240 minutes for well filling,
- Indication of trip cause.
- Control point for pressure switch, buoy, programmer...
- Includes: circuit breaker 1P+N, PS-R electronic relay, contactor, LEDs and on/off switch.

One of the most critical situations in pump operation is dry running. The solution offered by FANOX single-phase protection panels is based on measuring the undercurrent. In dry running situations a current decrease is detected. This reduction of consumed current is measured by the PS-R electronic relay fitted to the protection panel: when the preset undercurrent value is reached, it switches the pump off.

- IP 55
- Plastic case.

WITHOUT LEVEL SENSORS

CBM



PROTECTION FUNCTIONS

- I> Overload
- I< Undercurrent
- U> Overvoltage
- I>> Short-circuit



Pump protection without level sensor video demo:

Ref.	Code	Adjustable well filling time (min)	I _b (A)	Motor		Protections - Functions				
	230V			HP	kW	I>	I<	U>	Short circuit	Dimensions
CBM-1/P	12311P-230	2 - 70	1 - 5	0,17 - 0,9	0,12 - 0,67	✓	✓	✓	✓	230x250x150
CBM-2/P	12312P-230	2 - 70	3 - 11	0,5 - 2	0,37 - 1,5	✓	✓	✓	✓	230x250x150
CBM-3/P	12314P-230	2 - 240	3 - 16	2 - 3	1,5 - 2,2	✓	✓	✓	✓	230x250x150
CBM-4/P	12313P-230	2 - 75	16 - 28	3 - 5	2,2 - 3,75	✓	✓	✓	✓	230x250x150

- Equipment with halogen-free wiring

Fanox Control Panels protect pumps against dry running without using level sensors.

- Maximum protection without level electrodes or level relays.
- Electronic relay incorporated.
- Quick and easy installation, maintenance-free.
- Installation costs are significantly reduced.
- Can be adapted to installations already in service, without removing the pump.

