

PSP1 Monitor

Prevents Dry Running

**No External Sensors
Required**

**Reliable &
Maintenance Free**

Alternative Alarm Functions

Easy to Install

Running centrifugal pumps dry (without liquid) often causes severe damage resulting in expensive repairs and unexpected downtime.

The Crest PSP1 monitor provides permanent protection against pump dry running by electronic monitoring—no intrusive probes are required making the PSP1 ideal for use on pumps handling aggressive and corrosive liquids.

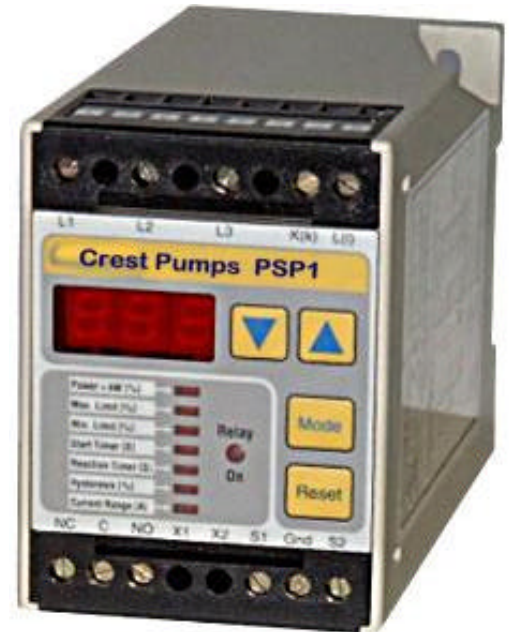
OPERATION

The PSP1 Pump Monitor is connected directly to the drive motor cable and constantly monitors the true power consumption of the drive motor and displays this as a percentage (% kW). When the pump runs dry the motor load decreases, the relay operates and the PSP1 initiates an alarm and/or stops the pump. Three phase electric motors of any current rating can be monitored, currents greater than 8 Amps require an external current transformer.

The monitor is provided with an alarm setting which can be set to the normal working range of the pump. The PSP1 is equipped with a delayed tripping function to eliminate spurious alarms caused by temporary variations in flow. It can also be connected to process PLC's and datalogging systems.

TECHNICAL DATA

Dimensions (WxHxD): 56 x 75 x 110 mm
 Weight: 0.45 kg
 Supply Voltage: 3 x 400 VAC
 + 10%, -10%
 Frequency: 45 - 65 Hz
 Input Current Range: Internal: 8A max.
 External: Through C/T
 Protection Class: IP40



CONTROL INPUTS

S1, Reset Input

S1— Ground (14-15), Linked = Auto Reset
 Switched = Manual Reset

S2, Alarm Inhibit Input

Connect S2—Ground (14-15) to inhibit an alarm

Dip Switch Functions (located under front plate)

- 1) Tamper proof settings
- 2) Select either no underload alarm at no motor load or alarm at no motor load - use S2 input to block any unwanted alarm

Connection example
 measuring ≤ 8 Amps
 (no external c.t.)

Connection example
 measuring ≥ 8 Amps
 (with external c.t.)

