

## Digital submersible pump controller



## ADVANTAGES

- Protects the submersible pump from 15 faults / unhealthy conditions
- Control logic of all types of starters are in-built, no need of designing logic-just select the type of starter from the menu
- All timers required for Star Delta / ATS starters are in-built
- Eliminates complicated wiring
- Push buttons are in-built
- Overload relay, single phasing prevention and all critical motor protections are in-built
- Indicating lamps are in-built
- Meters like ammeter and voltmeter are in-built (Can provide multifunction power meter as option)
- Pump auto control on level sensors and manual operation is in-built
- Auto / Manual selection is in-built, eliminates external switch / push buttons
- Plug-in connections reduce connection time
- Error-free connectors as plug-in connections are not interchangeable
- VFD compatibility with built-in filters

## FEATURES

In-built pump starting options	DOL / Star Delta / Auto Transformer Starting / Soft Starter
Display	2 Line Scrolling
Measurements and display	Voltage, Current, Faults trips and warning alarms, Trips and warnings counter for each fault and total, Pump on time (Running hours), Pump trip time, Pump off time, Multifunction power meter as optional.
Indication Lamps	3 phases, Pump On, Pump Off, Alarm, Auto Mode, Manual Mode, Seal Fail, Low Level, Pump Trip, Moisture in Motor, Moisture in Terminal Chamber, Over Temperature, Overload, Phase Fail, Bearing Temperature High, Reverse Rotation, Unbalance Current,
Controls	On, Off, Reset, Manual / Auto, Enter, Cancel / Back and 4 Scroll keys, Volt / Amp, F1/F2 for programming
Protections	Over Voltage, Under Voltage, Over Current, Unbalance Voltage, Unbalance Current, Phase Fail, Phase Reverse, Reverse Rotation, Seal Failure, High Winding Temperature, Pump Dry Run, Low level, Moisture in Motor, Moisture in Terminal Chamber, Bearing Temperature High, Locked Rotor, Short Circuit
Size	Cutout - 190 mm x 90 mm Depth – 165 mm
Password Protected Settings	Settings 1 - Selection of type of starter – DOL, Star Delta, Auto transformer; Reverse Rotation protection On or Off; Time setting for Star Delta / Auto transformer change over Settings 2 – Power on time, Unbalance % Amp. Phase fail % volts Settings 3 - Full load current, CT ratio, Nominal Voltage, Over voltage, Under voltage % and time
Networking Options	Rs232, GSM, Modbus networking available as option
Analytical Software (IOT)	Cloud based software for online monitoring of pump performance & predictive maintenance through pump parameters is available as option