



SubMonitor, 3-phase Pump Protection, 2.2 - 150 kW

The SubMonitor is the latest innovation in 3-phase pump protection from Franklin Electric. Using state-of-the-art technology, the SubMonitor provides the ultimate protection for a pump and motor. There is simply no better way to protect a large 3-phase submersible pump investment than with a SubMonitor. It's the protection device that can sense overheating straight from the motor windings!* And it is made by the world leader in submersible motors – Franklin Electric.

APPLICATIONS

The SubMonitor is designed to protect 3-phase pumps with horsepower ratings between 2.2 and 150 kW. Current, voltage and motor temperature are monitored using three integrated current transformers. A digital display provides current and voltage readings for all three legs and allows the user to set up the SubMonitor quickly and easily.

SPECIFICATIONS

Model Number	
Premium Package**	586 000 5100
Standard Unit	586 000 5000
Input Voltage	190 – 600 VAC
Frequency	60/50 Hz
Motor Service Factor Amps	5 to 350 Amps
Maximum Conductor Size Through Sensors	
Max Diameter	23 mm
Trip Response	
Motor Under/Overload, Under/Overtension, Overheat, Unbalance	3 seconds
Control Circuit Rating	1.5 Amp AC, up to 600 volts
Signal Circuit Rating	1 Amp AC, up to 250 volts (Incandescent lamp: 100 watts max)
Wiring Terminals	
Wire Gauge	1.0 - 2.5mm ²
Tighten to	0.5 N-m
Weight (SubMonitor)	1.5 Kg
Carton Size (Std. Unit)	19.7 cm x 29.2 cm x 17.1 cm
Shipping Weight (Std. Unit)	1.5 Kg

* For motors equipped with Subtrol sensor

** Premium package includes lightning arrestor and 3-year warranty on SubMonitor and Subtrol-equipped motor

FEATURES & BENEFITS

- Quick setup to monitor a motor, simply enter the Line Frequency (Hz), Line Voltage (volts), and Motor Full Load Amp rating
- Digital display indicates voltage and current on all three legs at the same time, and fault messages are in easily understandable text
- Monitors
 - Under/Overload
 - Under/Overtension
 - Current Unbalance
 - Overheated Motor (Subtrol-Equipped)
 - False Start (Chattering)
 - Phase Reversal
- For motors with service factor amp ratings between 5 and 350 amps
- One unit covers the entire range from 190 to 600 Volts
- No need to make additional turns around the CT or add external CTs
- Password Protection
- DIN Rail Mounting
- Stores fault, setting changes, and pump run-time, that can be accessed through the display
- Detachable display unit can be mounted on panel door
- UL 508 Listed

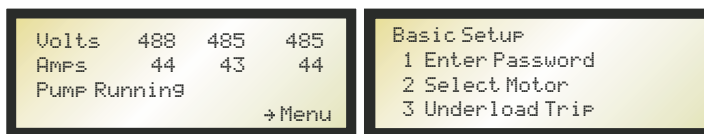
WARNINGS: Serious or fatal electrical shock or fire hazard may result from failure to follow the instructions for proper installation and use which accompany this equipment. Do not use motor in swimming areas.



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DISPLAY

- Real time display of voltage and current for each leg.
- Easy menu-driven setup and adjustment of monitoring parameters.



DETACHABLE DISPLAY UNIT

The detachable display unit displays and stores data it receives from the base unit.

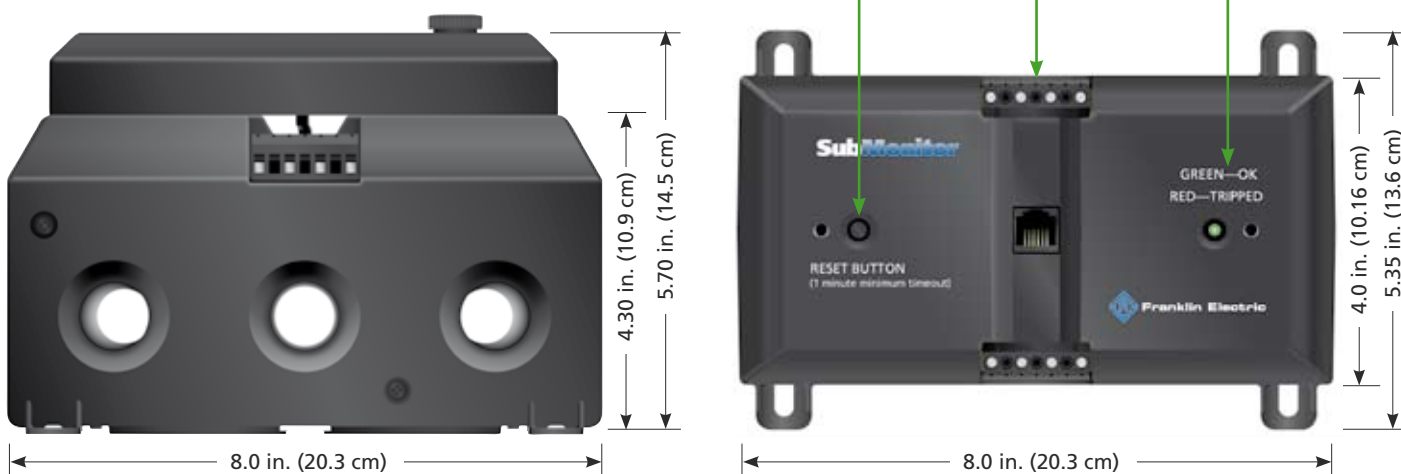
- Can be mounted on panel door for easy access and display of motor amps and voltage as well as fault messages. Communication cable connects the display to the base unit.
- Fault light can be seen from a distance - indicates that a trip has occurred and that a fault message is being displayed.
- Turn-and-push adjustment knob to access the setup menu, enable or disable monitoring parameters, and read fault data history.



BASE UNIT

The base unit contains the current sensors and electronics that monitor motor leads that pass through the sensors. It can operate independently of the detachable head.

- Can be mounted with 4 screws or with DIN rail.
- Dual colored fault light indicates status of the unit
 - Green OK
 - Red FAULT
- Power, control, and alarm terminal connectors are removable for easy access.
- Reset button allows the user to restart a motor after a trip has occurred.



Franklin Electric

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