

SUBMONITOR

THREE-PHASE PROTECTION

Motors
Drives
Controls
Protection

Get the Most From Your 3-phase Motor!

With Franklin Electric's SubMonitor, you can protect against adverse conditions such as low-flow wells, pump damage, clogging, bound pumps and power mishaps. SubMonitor is designed to protect three-phase motor and pump systems with ratings between 3 and 200 hp.

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. Data can be downloaded to a PC using Franklin's D3 device.

SubMonitor protects against:

- Under/Overload
- False Start (Chattering)
- Overheated Motor (Subtrol-equipped)
- Under/Overtoltage
- Current Unbalance
- Phase Reversal

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 0.920 in. (23 mm)

Trip Response

Motor Under/Overload, Under/Overtoltage,
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 #12 to #18 AWG
Tighten to 4.5 in-lbs

Weight (SubMonitor) 3.3 lbs/1.5 kg
Carton Size (Std. Unit) 7.75 in x 11.5 in x 6.75 in
(19.7 cm x 29.2 cm x 17.1 cm)

Shipping Weight (Std. Unit) 3.5 lbs/1.5 kg

Agency Approval UL 508 Listed

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



Detachable Display Unit

The detachable display unit displays and stores data it receives from the base unit. A communication cable connects the display to the base unit.

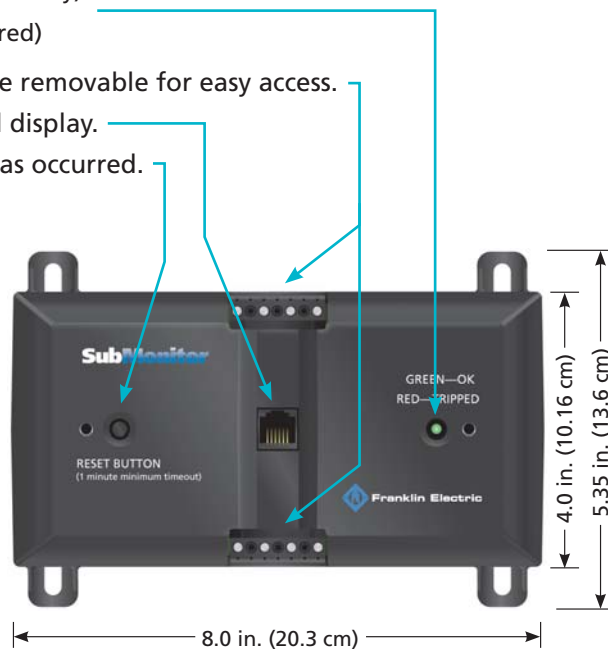
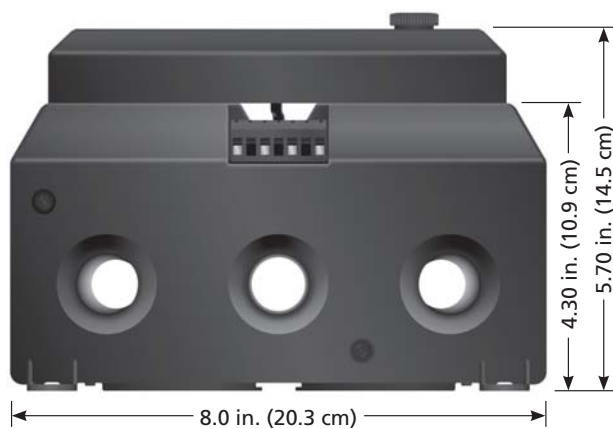
- Easy menu-driven setup and adjustment of monitoring parameters.
- Real time display of voltage and current for each leg.
- Can be mounted on panel door for easy access (mounting kit available).
- NEMA 3R enclosure.
- Password protection option.
- Fault light can be seen from a distance – indicates that a trip has occurred and that a fault message is being displayed.
- Turn-and-push adjustment knob.
- 502-event history (downloadable to PC with optional D3 unit – sold separately).



Base Unit

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

- Can be mounted with 4 screws or with DIN rail.
- Integrated current transformers.
- Dual-colored fault light indicates.
 - Green OK (system is operating normally)
 - Red TRIPPED (a fault has occurred)
- Power, control and alarm terminal connectors are removable for easy access.
- Port for communication cable between base and display.
- Reset button allows manual restart after a trip has occurred.



Franklin Electric

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