

# 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.

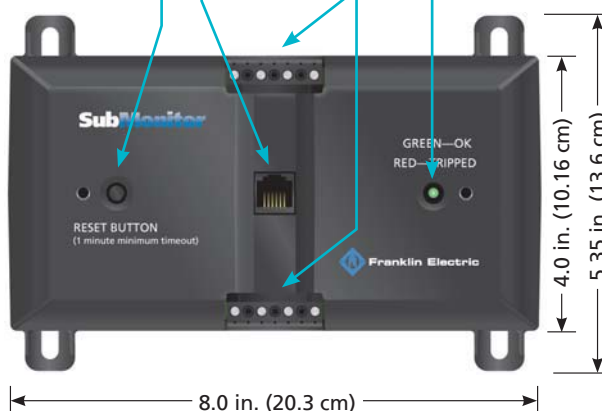
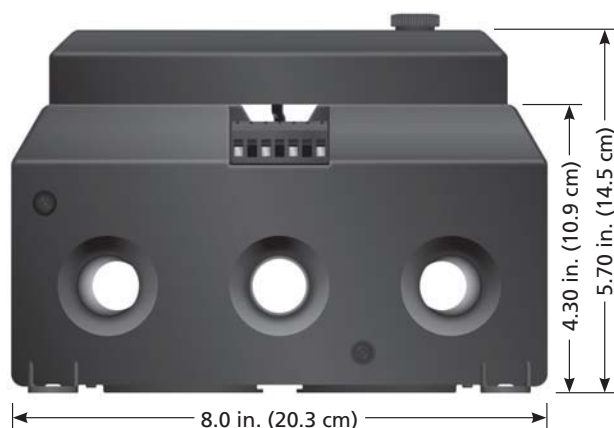
- Easy menu-driven setup and adjustment of monitoring parameters.
- Real time display of voltage and current for each leg.
- Can be mounted on panel door for easy access (mounting kit available).
- NEMA 3R enclosure.
- Password protection option.
- Fault light can be seen from a distance – indicates 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.



**kenindo**

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