



# SMART LOAD MANAGER

These are flushmounting, microcontroller based Instruments using advanced technology capable of measuring multiple electrical parameters in three phase system and single phase system. These are specially designed to simultaneously measure, display and communicate several electrical parameters. This forms an Ideal data source for effective Energy management, SCADA, PLC, BMS etc measures as many as 36 parameters on 23 display pages, which are true RMS. The readings are displayed on 3 line bright LED display (3 Line Bright Red 7seg. Display of 4 each 14.2 mm ht.)

## FEATURES

- True RMS measurements & 4 Quadrant operation
- CT/PT ratio site selectable
- Class of Accuracy-0.5 or 1
- 3Ø 4W / 3Ø 3W Balance & unbalanced operation (site selectable)
- Monitors Export & Import of Energy
- Monitors Eight Maximum Demand Values with date & time
- Auto Scrolling Facility

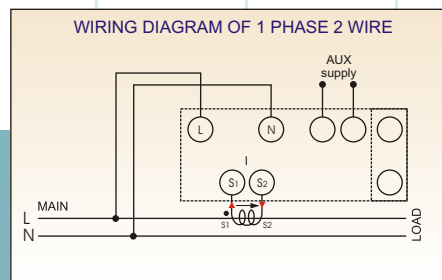
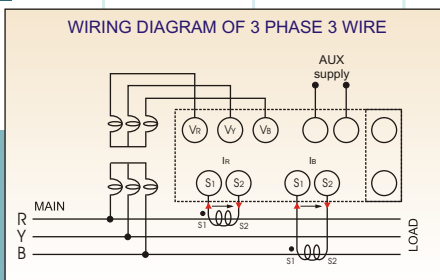
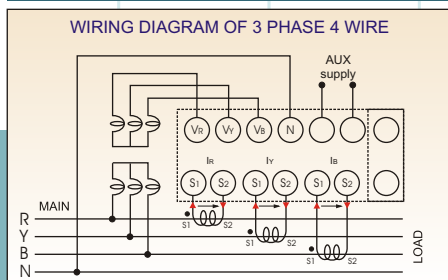
## ACCURACY

- VOLTAGE : 0.5% of readout ± 2 digits
- CURRENT : 0.5% of readout ± 2 digits
- ACTIVE POWER : Class 1.0-IEC 1036/IS13779
- REACTIVE POWER : Class 1.0-IEC 1036/IS13779
- APPARENT POWER : Class 1.0-IEC 1036/IS13779
- POWER FACTOR : 0.02
- ENERGY : Class 1.0-IEC 1036/IS13779

## ENERGY MANAGEMENT SOFTWARE

- Effective tool for Energy conservation.
- Reduction in Electricity Bills-result in indirect saving.
- Feeder wise consumption & billing in Rupees.
- Alarming Facility.
- Counter check on PF correcting device.
- Modular construction-site upgradable.
- Optional Interface & control
- Option to customised software.

## CONNECTION DIAGRAMS



## MEASUREMENT

- Voltage L-L and L-N & Avg.
- Current 3Ø & Avg.
- Power Factor (All phases & Avg.)
- kW, kVA, kVAr (3Ø & Total)
- Hz
- kWh, kVAh, kVArh & Total

## PROGRAMMABLE PARAMETER

- CTR
- PTR
- Meter ID
- Password
- Calendar(RTC)

## APPLICATION

- Power distribution
- Control Panels
- Switchboards
- Building Management Systems
- Process Control & SCADA
- Power Management
- QC Testing
- Control Panels
- Genset
- Energy Audit

## SYSTEM

- Auxiliary Supply : 230 V or 110 V AC
- Voltage Input : 415 V or 110 V AC
- Current Rating : 5A or 1A AC
- Starting Current : 0.2% of rated Current

## DIMENSION

- Front : 96x96 mm bezel size
- Depth : 82 mm

## DISPLAY

- Counts : 000 0000-999 9999 (for Energy)
- Viewing Area : 44x68mm, 15x65mm(LCD)
- Measuring Interval : 400msec.

## ENVIRONMENT

- Temperature : 0 to 60°C
- Storage : -20°C to +70°C

## COMMUNICATION (Optional)

- RS 232 or RS 485 serial port with Standard MODBUS RTU protocol
- Transistor O/P for MD setting

## KEY PAD

- 4 Functional keys to Scroll through Display pages for System values and programming parameters

## CASING

- Glass Filled Polycarbonate as per DIN 43700 for cut-out