

# MAXIMUM DEMAND CONTROLLER

NIPPEN Maximum Demand Controller offers demand monitoring with date and time of occurrence.

The present and predictive demand are displayed separately. The Maximum demand controller (MDC) has 4 relays to facilitate tripping of non essential loads.

The trip setting is done according to the contract demand offered by the Electricity Board.

Demand control is done by 1) Step Demand Control 2) Forecast Demand Control

## PARAMETERS DISPLAYED

- Demand (Present & Predictive)
- Maximum Demand. (KVA or kW)
- V, A, kW, & kVA for each phase.
- V, A(Avg.) kW, kVA (Total)

## UNIQUE FEATURES

- True RMS Measurements.
- Sliding window type.
- Programming and viewing of predictive,
- Maximum Demand & Present & predictive
- User defined Demand TOD (4- slots).
- User defined Season (4-slots).
- Auto/Manual Scroll.
- Demand Parameter of kVA or kW.
- Auto scaling and decimal point.
- Programmable Demand period(5min to 30min)
- Low CT/PT burden.
- Auto EB Synchronization
- Finger proof terminals (Optional)
- ERTL/ERDA Tested.
- Isolation: 4kV,50 Hz, 1 min (Enclosure to Terminal)
- User programmable Password protection.
- OLD Register to be used the previously cleared
- Demand value
- 4 user defined potential free contact Relay outputs.

## ELECTRICAL SPECIFICATIONS

- Voltage (Line to Line): 80 to 550V AC
- Current ratings: 5A AC (CT Ratio Programmable)
- System: 3Ø 4wire/3Ø 3wire/Single phase.
- Aux supply: 230V AC  $\pm$  10%
- Frequency: 45-65 Hz.
- VA Burden: < 0.4VA.
- Relay rating: 5A/250V AC

- DISPLAY: 4 digits of 7 Segment bright Red LEDs  
14.2mm height in both rows.
- ACCURACY CLASS:  $\pm$  1.0/0.5 (Optional)
- COMMUNICATION: RS 485 serial port with standard  
MODBUS RTU protocol (Optional).
- CASING: Glass filled Plastic as per DIN 43700.
- TERMINAL BOARD: 20 ways terminals with M4 Screws.
- CLAMPS: G.F Plastic.

## ENVIRONMENT

- Temperature: -10 to 55°c
- Storage: -10°c to 70°c
- Humidity: Up to 95% RH.

## DIMENSION

- Front: 96 x 96mm bezel size.
- Depth: 82mm.
- Panel Cut-out: 91 x 91mm.
- Weight: 400 gms. (approx.)
- Protection: IP 54 (front option)  
IP 20 terminal block

**KEY PAD:** 4 keys for scrolling through display pages and programming functions.

## APPLICATIONS

- HT/LT Panels.
- Power distribution.
- BMS & SCADA systems.
- Switchboards in Malls/Multi-storey Buildings/Theatres.
- All types of Industrial control panels.

## CONNECTION DIAGRAM

