MULTI FUNCTION METERS





DT-108+

- Measurement of all voltages and currents, power.
- Multi function parameter measurement.
- Large Multi line LED bright red display .
- Accuracy class 1s(IEC 1036/CBIP 88).
- Optional RS 485 port modbus RTU protocol.







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MULTIFUNCTION METERS - DT-108+

Our range of three-phase multi-function digital panel meters for accurate and reliable measurement of electrical parameters (voltage, current, power, frequency, etc) in industrial and commercial applications. It has a large multi-line Red LED display which enables three parameters to be displayed at the same time.



Features

Accuracy class 1s.

True RMS measurements with perfect linear response.

3rows of (14.2mm)7 segment led 4digit bright red display.

8 digit for energy.

On site programmable CT ratio, PT ratio.

V,A,PF all 3 phases can be viewed simultaneously.

Wide range of auxiliary supplies.

Reliable performance at Low Current(>5% of load).

Password Protection for setup mode.

Single relay output for multiple alarms.

Finger proof self lifting terminals for connection of wiring.

Auto scaling of kilo, mega led.

Keypad: 4 keys for scrolling display pages & programming functions.

Electrical Specification

System: 3phase 4wire / 3phase 3wire / 1phase 2 wire.

Operating Voltage: 80 - 500 V AC Line to Line at 45........65 Hz.

PT Ratio: 110v to 500kv / 110v.

Current: 50mA-6A AC.

CT Ratio: 5-9999A AC (only primary to be set).

Power Consumption:<0.1VA in Current Circuit,< 0.1 VA in Voltage.

Auxiliary supply: 230VAC default (±20%) 50Hz...

Burden: 0.2VA per phase & < 3VA max on Auxiliary supply.

Dielectric strength : 2 kv for 1min. Relay rating : 5Amps 250Vac.

Relevant Standard

EMC: IEC 61326 / Immunity: IEC 61000-4-3 / Safety: IEC 61010-1-2001

Protection: Ip52 Front / Ip20 Terminal block.

Features	DT-36	DT-3600	DT-108	DT-108+	DT-108DG
LN voltage & average.	•	•	•	•	•
LL voltage & average.	•	•	•	•	•
Line Current & average.	•	•	•	•	•
Frequency with RPM.	•	•	•	•	•
Active Power.		•	•	•	•
Re-Active Power.		•	•	•	•
Apparent Power.		•	•	•	•
Power factor.		•	•	•	•
Active Energy.			•	•	•
Apparent Energy.			•	•	•
Power On hours.	•	•	•	•	•
Number of interruption.	•	•	•	•	•
Min Max values.				•	
Current Demand.				•	
Optional RS-485.	•	•	•	•	•
Optional Relay output	•	•	•	•	•
Generator Energy					•

Programmable Setting

CT Ratio Primary to be set,

PT Ratio, Meter ID, MD, Password.

Auto/Manual Scroll ON & OFF Mode .

Parameters Displayed

VLN, VLL, Ampere, Frequency & Average, RPM.

Active Power kW, Apparent Power kVA, Reactive Power(kVAr) Total.

Active energy, Apparent energy, Power Factor (PF), Average.

On hours, Minimum & Maximum of VLN, VLL, Amps, Hz. .

Optional Features

RS-485 serial output port with standard Modbus Rtu protocol.

Single relay output to set over, under limit.

Environment

Ambient: -10° C to 55° C.

Storage: -20° C to 70° C.

Humidity: <95% RH Non condensing.

Mechanical Dimensions

Front: 96mm x 96mm / Depth 54mm

Panel Cut Out: 91mm x 91mm ± 0.1mm

Casing: Flame retardant ABS.

Connector: ABS & Pcb terminal block.

Applications

Commercial and Industrial Sub Metering.

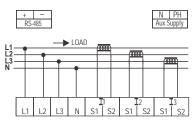
Switch gear panels.

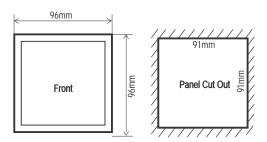
Control and relay panels.

Power Control panels and Motor Control panels.

Scada, Building Management system(BMS).

Typical Diagram





Multi Function Meter Reliable Performance