

FIELD MEASURING INSTRUMENTS FOR PV SYSTEM

MULTI CIRCUIT DC CURRENT MONITOR (16 CHANNELS)

Model **MCM-1600PV**



Measuring + display of DC current values generated by PV systems and DC load current of related apparatus in multi circuit successively for a long term as well as memorizing the average current values between the intervals, of which data can be transmitted to PC in Excel File.

The circuits to be measured are max. 16 lines and in PV systems, can measure DC current per each string unit at the same time.

Using clamp type current sensors which enable safe and easy operation.

MEASURE · MEMORIZE · DISPLAY THE DC CURRENT OF MAX.16 CIRCUITS AT THE SAME TIME.
EASY FOR DATA MANAGEMENT (STORAGE BY CSV FORMULA).

GENERAL

1. MEASURING FUNCTION

By Connecting Optional CT Sensors, the instrument can Measure and memorize DC current of 16 circuit at the same time and the memorized data can be seen even During measurement.

2. LOGGING MEASURING FUNCTION

This instrument displays and memorizes the average current between the selected intervals.

Interval : 1 / 5 / 10 / 15 / 30 / 60 minutes

Contents of Memory : Measuring Time / Measuring Circuit / The average current value

Capacity of Memory : Approx. 20,000 data (72 days with 5 minutes interval)

3. OTHER FUNCTION

Over Range Indication : "OL" mark on LCD

Low Battery Indication : "B" mark on LCD

Logging Mode Indication : "R" mark on LCD

Auto Power Off : Approx. 10 minutes after last key operation. (this function will not be active in case of using AC adapter, timer set on and logging mode)

SPECIFICATIONS

Number of Measuring Circuit : 16 circuits (channels)

Detection Method : Clamp-on CT method

Measuring Range : DC0~99.9A

Minimum Resolution : 0.1A

Measuring Accuracy : $\pm 3\% \text{rdg} \pm 5 \text{dgt}$

Sampling : Approx. 20mS

Measuring Temperature: 0~50°C, less than 80%RH w/o condensing

Storage Temperature : -10~60°C, less than 80%RH w/o condensing

Measuring Circuit Voltage : less than DC600V (insulated conductor)

Insulation Resistance : more than 100MΩ by DC500V insulation tester (between input terminal and housing case) more than 50MΩ by DC500V insulation tester (between power supply source and housing case)

Withstanding Voltage : AC2200V (50 / 60Hz) one minute between power supply source and housing case

Power Supply : AC100V~240V with adapter

Battery Life : Internal Ni-hydride Battery

Battery Life : Approx. 4 days at continuous use by full charge

Dimensions & Weight : 236(W)×170(H)×56(D)mm, approx. 840gs

Standard Accessories : Carrying Case, AC Adapter, USB Cable, Instruction Manual

Optional Accessories : CT-30PV Clamp CT with i.d. 30mm & 2.8m cable,
CT Carrying Case (for max. 8 CTs)