

KEW WAVE SERIES-PANEL METER

PRODUCT 1.4: - FOUR CHANNEL DC KWH METER



DESCRIPTION

The **KEW 4-Channel DC Energy Meter** is a four-channel DC KWH meter **designed for Telecom and Solar applications**, capable of measuring **Bus Voltage and individual channel currents with energy (kWh) data**. It supports both **16x4 alphanumeric LCD display options with manual/auto scrolling**. The meter **offers flexible current input via shunt with programmable scaling, and energy reading up to 999999 Wh**. All 4 input channels are fully isolated, and group switching between multiple channels is supported. It includes RS-485 communication and Modbus RTU support (optional). **Hourly logging of 15 parameters is available with 8-day storage and time stamping**. Self-powered auxiliary supply and various polarity/under-range indications are provided for intelligent monitoring

FEATURES OF DC KWH METER

Meter Type	4-Channel DC KWH Meter with individual current and energy monitoring
Measured Parameters	Voltage, Current, Power, Energy (KWH), Run Hour, Load Hour
Smart Display & Navigation	16x2/16x4 Alphanumeric LCD (Blue/Green) with Auto/Manual Scroll
Accuracy	±0.5% FS ±1 digit for Voltage, Current, Energy
Flexible Integration	RS-485 (Isolated), Modbus RTU, R-Log Master Software, SMPS Power Supply, Programmable SHUNT scaling, Remote Group Load Switching



SPECIFICATION OF DC KWH METERS

Electrical Characteristics: -

Meter Type	<u>4-Channel DC KWH Meter (Telecom & Solar Applications)</u>
DC Bus Voltage Range	0–200V DC (Accuracy: $\pm 0.5\%$ FS ± 1 dgt.)
DC Current Range	0–75 mV or 50 mV via SHUNT (Accuracy: $\pm 0.5\%$ FS ± 1 dgt.)
DC Power Range	0–9999 kW or MW (Accuracy: $\pm 0.5\%$ FS ± 1 dgt.)
Auxiliary Supply	36–70V DC (Self-powered available)
VA Burden (Typical)	Aux: <2.5 VA, Voltage Input: <0.2 VA, Current Input: <0.2 VA/channel

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Calibration Temperature	27°C \pm 5°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	92 \times 92 mm

Display Characteristics

Display Type	4 Digit Red LED Super Bright Display
Other Features	Auto / Manual Scroll, Polarity Indication, Error Code Blinking

APPLICATIONS OF DC KWH METERS

Battery Banks & Charging Systems



Solar Power Installations



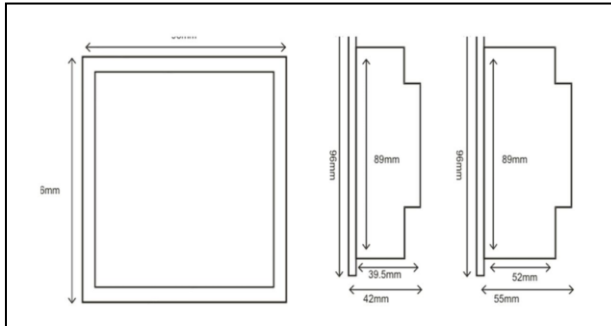
DC Panels and Distribution Boards



Telecom Power Supplies

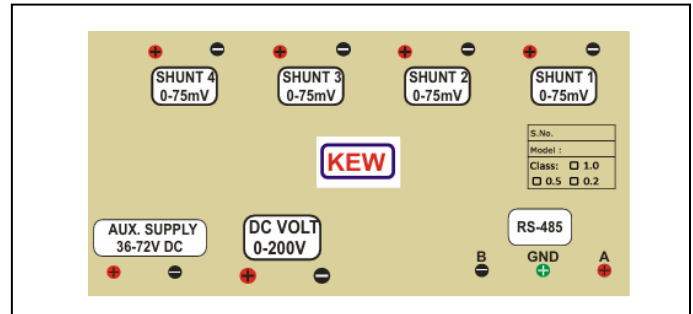


Panel Cutout





Terminal Connection

(4CH-DC-Polar-Meter)



Ordering information:

MODEL	Measured Parameters	Accuracy Class	Auxiliary Supply
KEW DC KWH METER (4CH-DC-Polar-Meter) 	V, A, kW, kWh (4 Channels), Bus Voltage	1.0/0.5	36–70V DC (Self-powered available)
KEW DC KWH METER (1CH-DC-Polar-Meter) 	V, A, kW, kWh, Bus Voltage	1.0/0.5	45–270V AC / DC or 19–60V AC / DC