

KEW WAVE SERIES-PANEL METER

PRODUCT 1.1: - AC AMMETER (SINGLE PHASE/THREE PHASE)



DESCRIPTION

This **AC Ammeter** is designed for accurate measurement of **Current (Phase-wise and Average)** in both **Single Phase and Three Phase** systems. It offers **True RMS measurement**, ensuring reliable readings across various load types. The device features a **4-digit bright LED display**, **Auto/Manual scrolling**, and **push-button programming** on the front fascia. Multiple models are available with current ranges from **0.02A to 50A** and **programmable CT ratios** up to **5000A**. It supports a wide **auxiliary supply range** and provides **±0.5% accuracy** for current measurement. Optional **RS-485 communication** enables remote monitoring, while **alarm relay output** can be provided on demand. It is ideal for industrial and utility applications requiring precise current tracking.

FEATURES OF AC AMMETER

Meter Type	Single Phase & Three Phase AC Ammeter
Measured Parameters	Current (Phase-wise & Average), True RMS
Smart Display & Navigation	4-digit bright RED LED display with Auto/Manual Scroll
Accuracy	±0.1% to ±0.5% for Current Measurement
Flexible Integration	RS-485 & MODBUS RTU communication (optional), programmable CT ratios, wide auxiliary supply range



SPECIFICATION OF AC AMMETER

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase AC Ammeter
Auxiliary Supply Voltage	<ul style="list-style-type: none"> ◆ 45–270V AC/DC ◆ 18–60V AC/DC (<i>Optional range</i>)
CT Ratio Programmability	User programmable
VA Burden	<ul style="list-style-type: none"> ◆ Auxiliary Supply: < 1.5 VA ◆ Current Input: < 0.2 VA/Phase
Input CT Programmable Range	1A to 50kA (Primary), 0.5A to 5A (Secondary)
Impulse Withstand Voltage	3.5 kV for 1.2–50 μ s

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	-10°C to 70°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96×96 mm

Display Characteristics

Display Type	4-Digit, 7-Segment RED LED (1 Row)
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF AC AMMETER

Electrical Panels



Building Management Systems (BMS)



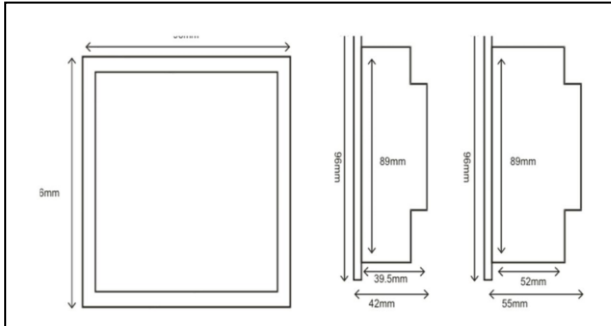
Generator / DG Set Panels



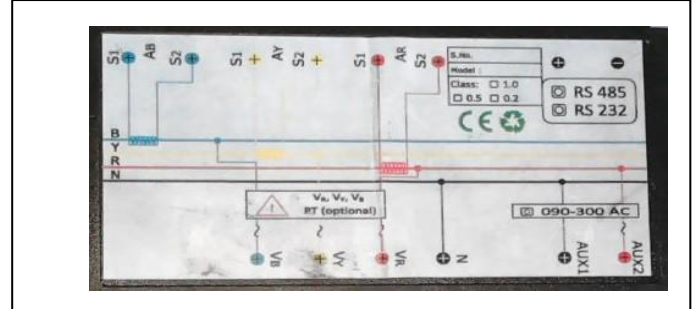
Commercial Sub-Metering / Retail Malls





Panel CutOut



Terminal Connection



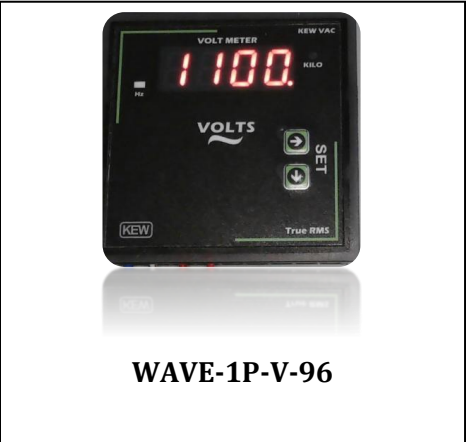
Ordering information:

MODEL	Dimensions	Measuring Range	ACCURACY CLASS	AUX SUPPLY
KEW AC AMMETER (Single Phase) 	96*96 48*96 72*72 & customisable	10–35uA 0.2–20mA 10–750mA 0.020–10A AC (Direct) 0.1A-30A (Direct) CT program up-to 50kA	0.5 1.0 0.5	150–300V AC 45–270V AC/DC 19–60V AC/DC
KEW AC AMMETER (Three Phase) 	96*96	0.020A–10A AC or 0.1–30A AC (Direct) (Per Phase)	1.0 0.5	150–300V AC 45–270V AC/DC 19–60V AC/DC

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.2: - AC VOLTMETER (SINGLE PHASE/THREE PHASE)



DESCRIPTION

This AC Voltmeter series offers **True RMS** measurement for both **Single Phase and Three Phase** systems. It supports a wide **voltage range (up to 750V AC)** and operates with a **universal auxiliary supply** (150–300V AC, 45–270V AC/DC, 19–60V AC/DC). The meter features a **4-digit Super Bright LED display** with **auto/manual scrolling** of parameters. It is **password protected** and supports **RS-485 Modbus communication** (optional). The compact design uses a **flame-retardant ABS body** for enhanced durability. It provides high **accuracy (Class 0.5 / 1.0)** and a **frequency range of 40–400 Hz**. Ideal for use in **industrial panels, control systems, and generator monitoring**.

FEATURES OF AC VOLT METER

Meter Type	Single Phase & Three Phase AC Voltmeter
Measured Parameters	1Ø(WAVE-1P-96/72): V (L–N) 3Ø(WAVE-3P-V-96): V (L–N, L–L)
Smart Display & Navigation	4-digit bright RED LED display with Auto/Manual Scroll
Accuracy	±0.1% to ±0.5% for Voltage measurement
Flexible Integration	Supports wide input voltage range (up to 750V AC), RS-485 MODBUS (optional), and versatile auxiliary supply: 150–300V AC, 45–270V AC/DC, 19–60V AC/DC



SPECIFICATION OF AC VOLT METER

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase AC Voltmeter
Auxiliary Supply Voltage	150–300V AC, 45–270V AC/DC, 19–60V AC/DC (Optional range)
PT Ratio Programmability	PT Programmable via front key (Primary: 50–500V, Secondary: 50–500V)
VA Burden	Auxiliary Supply: < 1.5 VA Voltage Input: < 1.0 VA
Input PT Programmable Range	Voltage Input Range: 0–750V AC (Direct) PT Programmable Range: Primary: 50–500V AC Secondary: 50–500V AC
Impulse Withstand Voltage	3.5 kV for 1.2–50 μ s

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	0°C to 70°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96×96 mm

Display Characteristics

Display Type	4-Digit, 7-Segment RED LED (1 Row)
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF AC VOLT METER

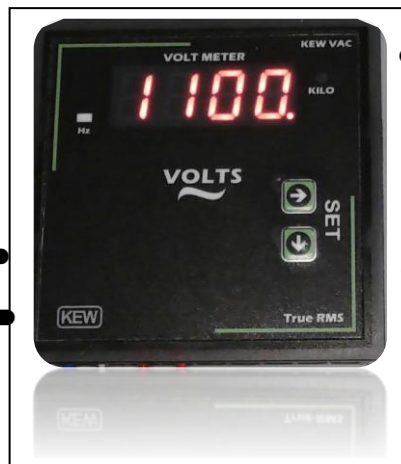
Electrical Panels



Building Management Systems (BMS)



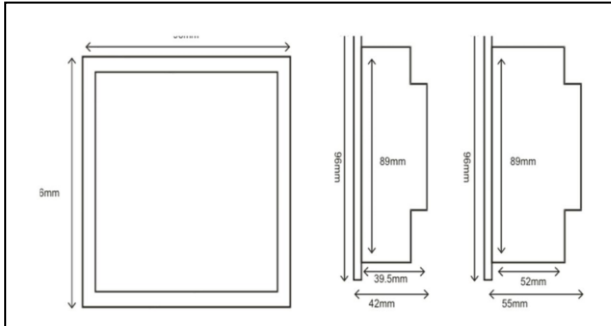
Generator / DG Set Panels



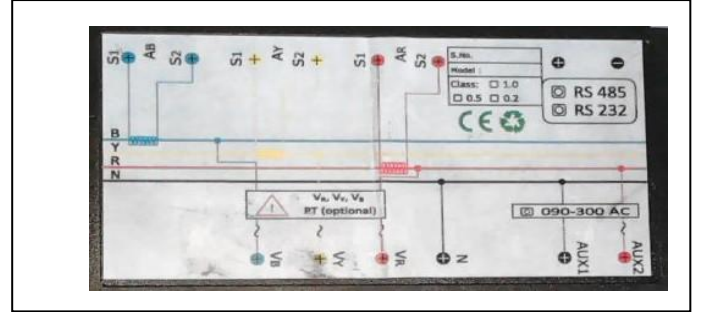
Commercial Sub-Metering / Retail Malls





Panel CutOut



Terminal Connection



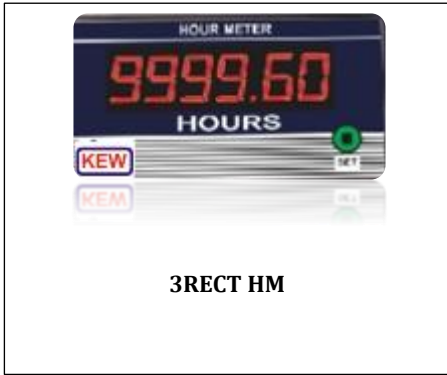
Ordering information:

<u>MODEL</u>	<u>Measuring Range</u>	<u>ACCURACY CLASS</u>	<u>AUX SUPPLY</u>
<u>KEW AC VOLT Meter (Single Phase)</u> 	0–10V AC / 0–20V AC / 0–30V AC / 0–100V AC	0.5	150–300V AC 45–270V AC/DC 19–60V AC/DC
	20–750V AC	1.0 0.5	
<u>KEW AC VOLT METER (Three Phase)</u> 	20–600V (Line to Neutral) 30–1000V (Line to Line)	1.0 0.5	150–300V A 45–270V AC/DC 19–60V AC/DC

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.11: - AC HOUR METER



DESCRIPTION

AC Hour Meters are designed to display run hours of any system with memory retention, even after power failure. The meter provides both hour and minute display options with **high accuracy (1 second)**. It features bright LED displays (4 or 6 digit), auto/manual scrolling, and is password protected. **Multiple ranges up to 9999.99 hours** are available. RS-485 communication and relay output options can be provided. Models support both panel mounting and wide auxiliary supply ranges, making them ideal for industrial and energy monitoring applications.

FEATURES of AC HOUR METER

Meter Type	AC Hour Meter
Measured Parameters	System Run Time in Hours and Minutes
Smart Display & Navigation	Auto/manual scroll, password protection, push-button interface
Accuracy	±1 Second
Flexible Integration	Optional RS-485 communication, relay output (optional)

SPECIFICATION of AC HOUR METER

Electrical Characteristics: -

Meter Type	Hour Meter (BG HM / SG HM / RECT HM)
Auxiliary Supply Voltage	150–300V AC (TX Supply), 45–270V AC/DC, 19–60V AC/DC
Maximum Overload	Voltage 1.2 Times Continuous
VA Burden	≤ 1.5 VA
Impulse Withstand Voltage	3.5 kV, 1.2/50 micro sec
Dielectric Strength	2.5 kV @50 Hz for 1 min (Input/Auxiliary/Case-Terminals)

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	-10°C to +70°C, RH<70%

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	Standard: 96 × 96 mm , 48 × 96mm , 72 × 72mm

Display Characteristics

Display Type	4-Digit, 7-Segment RED LED DISPLAY
Digit Height	BG HM: 0.56"/14.2 mm SG HM & RECT HM: 0.36"/9.1 mm

APPLICATIONS OF AC HOUR METER

Electrical Panels



Building Management Systems (BMS)



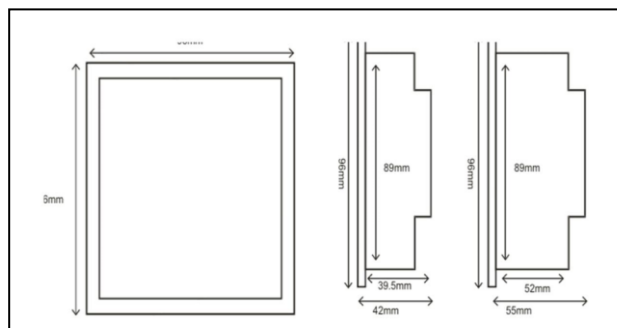
Generator / DG Set Panels



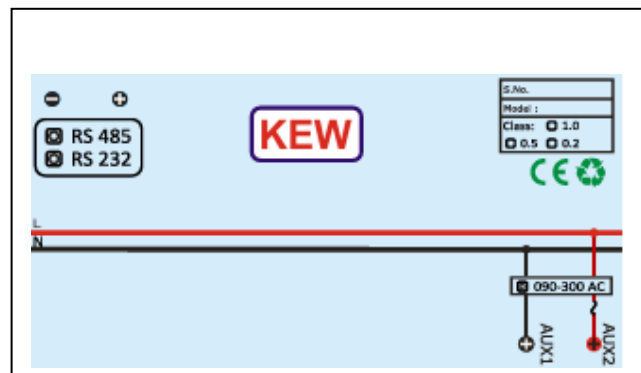
Commercial Sub-Metering / Retail Malls






Panel Cutout



Terminal Connection



Ordering information:

<u>Model</u>	<u>Display Range</u>	<u>Accuracy Class</u>	<u>Aux Supply Options</u>
KEW BG HM 	0.01 – 9999.99 Hours	1 Second	150–300V AC (TX Supply) 45–270V AC/DC 19–60V AC/DC
KEW SG HM 	0.01 – 9999.60 Hours	1 Second	150–300V AC (TX Supply) 45–270V AC/DC 19–60V AC/DC
KEW RECT HM 	0.01 – 9999.60 Hours	1 Second	45–270V AC/DC

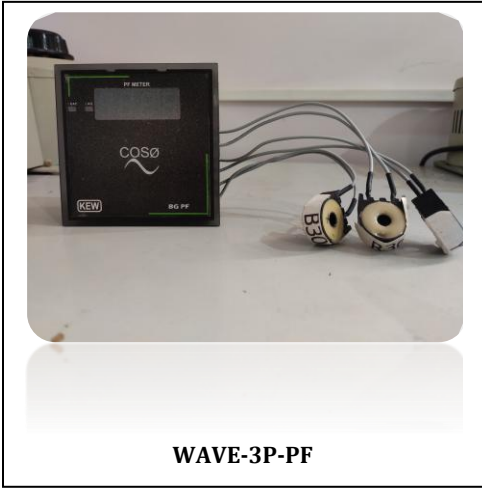
*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.4: - AC POWER FACTOR METER (SINGLE PHASE/DUAL PHASE)



WAVE-1P-PF



WAVE-3P-PF

DESCRIPTION

The **KEW AC Power Factor Meter** is a compact digital panel meter available for **Single Phase and Three Phase** systems. It accurately displays the **Power Factor** of the system using **True RMS measurement**. Equipped with a **4-digit bright LED display**, it indicates **leading or lagging status** and shows **error codes** when current is not detectable. It supports **easy programming via front keys**, and **RS-485 MODBUS communication** and **alarm relay output** are available optionally. With a **wide auxiliary voltage range**, high accuracy, and user-selectable configuration, it is ideal for **power factor monitoring** in both industrial and commercial panels.

FEATURES OF POWER FACTOR METER

Meter Type	Single Phase & Three Phase Power Factor Meter
Measured Parameters	Power Factor (Cos Φ), Frequency (Hz), Lag/Lead Indication
Smart Display & Navigation	4-digit bright LED display with Auto Scroll, Error Code Indication
Accuracy	$\pm 0.5\%$ for Voltage, Current
Flexible Integration	RS-485 MODBUS communication (optional), User-programmable setup, Alarm relay (optional), Compact panel mount design (96×96 mm)

SPECIFICATION OF POWER FACTOR METER

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase Power Factor Meter
Auxiliary Supply Voltage	<ul style="list-style-type: none"> • 150–300V AC (TX Supply) • 45–270V AC/DC • 19–60V AC/DC
Measuring Method	Cosine of Phase Shift Between Voltage & Current
VA Burden	<ul style="list-style-type: none"> • Auxiliary: ≤ 1.5 VA • Voltage: ≤ 1.0 VA • Current: ≤ 1.0 VA
Polarity Indication	Lagging (L) / Leading (C)
Input Specifications	Input Voltage: 0 – 750V AC (Direct) Input Current: 0.020 – 10A AC (Direct)

Environmental Characteristics: -

Operating Temperature	0°C to 60°C, RH<70%
Storage Temperature	-10°C to 70°C, RH<70%

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	Front: 96×96 mm • Depth: 52 mm

Display Characteristics

Display Type	4-Digit Super Bright RED LED
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF POWER FACTOR METER

Electrical Panels



Building Management Systems (BMS)



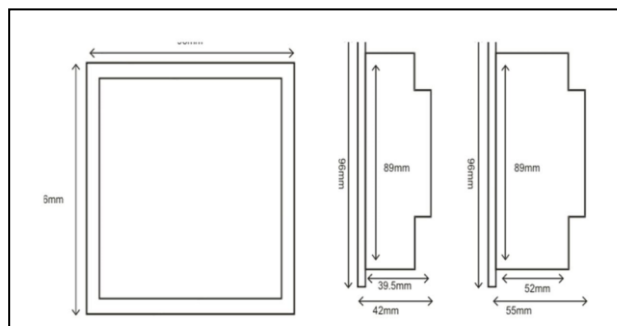
Generator / DG Set Panels



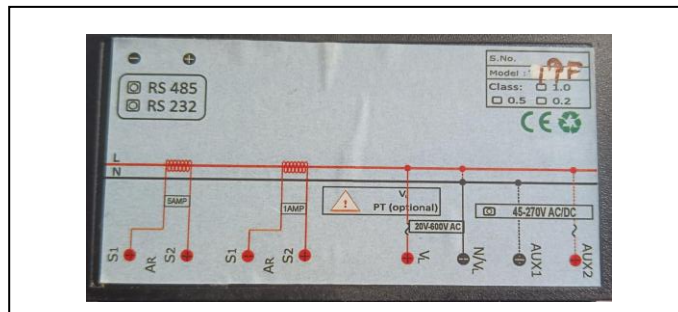
Commercial Sub-Metering / Retail Malls





Panel CutOut



Terminal Connection



Ordering information:

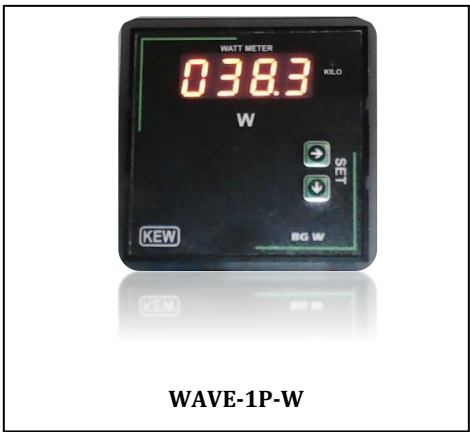
MODEL	Measuring Range	ACCURACY CLASS	AUX SUPPLY
KEW Power Factor Meter (Single Phase) 	Voltage Input: 20–750V AC (Direct) Current Input: • 0.080–10A AC (Direct) • 0.020–1A AC (Direct) • 0.1A–30A AC (Direct)	0.5	• 150–300V AC (TX Supply) • 45–270V AC/DC • 19–60V AC/DC
KEW Power Factor (Three Phase) 	Voltage Input: 200–600V (Line to Neutral), 30–1000V (Line to Line) Current Input: • 0.020–10A AC • 0.1A–30A AC (Per Phase)	0.5	• 150–300V AC (TX Supply) • 45–270V AC/DC • 19–60V AC/DC

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KEW WAVE SERIES-PANEL METER

PRODUCT 1.6: - *AC WATT & KILLOWATT METER (SINGLE SOURCE/DUAL SOURCE)*



DESCRIPTION

The **KEW AC Watt & Kilowatt Meter** is a compact panel-mounted meter available in Single Phase and Three Phase models. It accurately measures essential electrical parameters including Voltage, Current, Power (kW, kVA, kVARh), Power Factor, Frequency, and Energy (kWh, MW) using **True RMS** technology. A bright 4-digit LED display with auto/manual scrolling makes real-time monitoring simple and clear. The meter supports **programmable CT/PT ratios** and offers optional **RS-485 MODBUS RTU** communication for seamless integration into remote monitoring systems. Built to IEC 62052-11 standards with $\pm 0.5\%$ accuracy, it's ideal for energy audits, load analysis, in both residential and industrial settings.

FEATURES of AC Watt & Kilowatt Meter

Meter Type	Single Phase & Three Phase AC Watt & Kilowatt Meter
Measured Parameters	Active Power (W), Active Power (kW), Active Energy (Wh), Active Energy (kWh), kW Max Demand
Smart Display & Navigation	4-digit bright red LED display (14.2mm height), auto/manual scrolling
Accuracy	$\pm 0.5\%$ for Voltage, Current, Power
Flexible Integration	Optional RS-485 MODBUS RTU Communication, programmable CT/PT ratios, password protection, multiple auxiliary supply options (150-300V AC / 45-270V AC-DC / 19-60V AC-DC)



SPECIFICATION of AC WATT & KILLOWATT Meter

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase AC Watt & Kilowatt Meter
Auxiliary Supply Voltage	150–300V AC / 45–270V AC/DC / 19–60V AC/DC
Input Range	Input Voltage: 0–600V AC (Direct) Input Current: 0.020–10A AC (Direct)
VA Burden	○ Auxiliary: ≤ 1.5 VA Voltage Input: ≤ 1.0 VA Current Input: ≤ 1.0 VA
Input CT/PT Programable Range	CT Primary: 1A to 50kA AC CT Secondary: 0.5A to 5A AC PT Primary: 50 to 500kV AC (Programmable in WAVE 3KW) PT Secondary: 50 to 500V AC (Programmable in WAVE 3KW)
Impulse Withstand Voltage	3.5 kV for 1.2–50 μ s

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	–10°C to 70°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	Standard: 96 × 96 mm

Display Characteristics

Display Type	4-Digit, 7-Segment RED LED (3 Rows)
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF AC WATT & KILLOWATT METER

Electrical Panels



Building Management Systems (BMS)



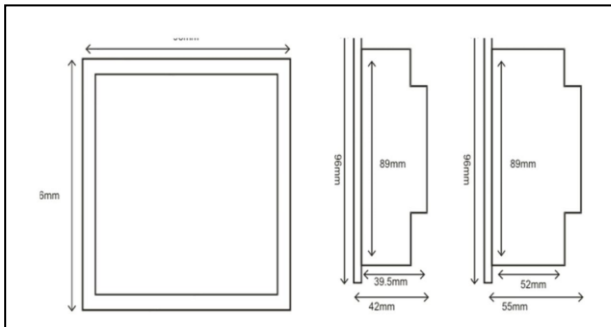
Generator / DG Set Panels



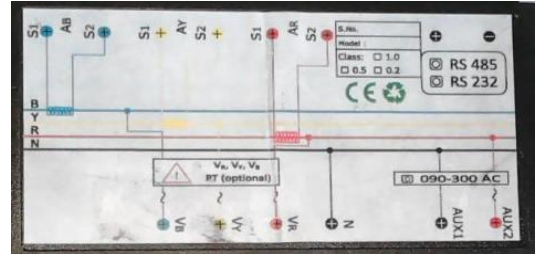
Commercial Sub- Metering / Retail Malls



Panel CutOut





Terminal Connection



WAVE-3P-KW

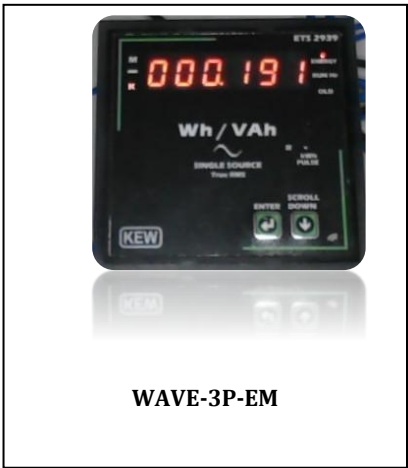
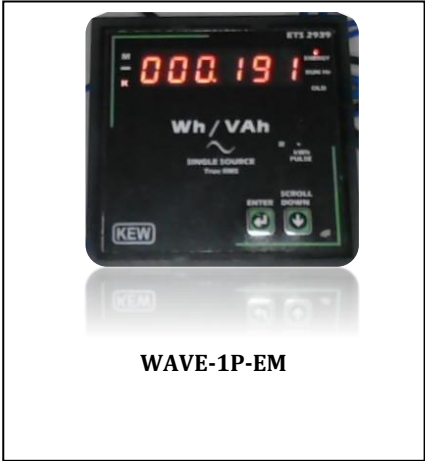
Ordering information:

MODEL	Measuring Range	ACCURACY CLASS	AUX SUPPLY
KEW WATT Meter (Single Phase) 	Voltage Input: 20–600V AC (Direct) Current Input: 0.080–10A AC (Direct) 0.020–1A AC (Direct) 0.1A–30A Direct AC	0.5	<ul style="list-style-type: none"> 150-300V AC (TX Supply) 45-270V AC/DC 19-60V AC/DC
KEW WATT Meter (Three Phase) 	Voltage Input: 20–600V (Line to Neutral) 30–1000V (Line to Line) Current Input: 0.020–10A AC 0.1A–30A Direct AC CT Operated	0.5	<ul style="list-style-type: none"> 45-270V AC/DC 19-60V AC/DC

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.7: - *ENERGY METER/INTEGRATED METER (SINGLE SOURCE/DUAL SOURCE)*



DESCRIPTION

The **KEW Energy Meter** are compact, panel-mounted **energy meters** designed for **Single Source** and **Dual Source** systems. They accurately measure parameters like **Voltage, Current, Power (kW), Power Factor, Frequency, Energy (kWh, kVAh), and Load Hours** using **True RMS** technology. Featuring a bright **6-digit LED display** with **auto/manual scrolling**, they offer clear and user-friendly monitoring. These meters support **programmable CT/PT ratios**, along with **energy accumulation, reverse lock, and reset options**. Optional **RS-485 & MODBUS RTU communication** and **relay output** enable remote monitoring and control. Built to **IEC/EN61010-1** standards with **±0.5% accuracy**, they're ideal for **energy audits, load profiling**.

FEATURES of ENERGY METER

Meter Type	Single Phase & Three Phase Digital Energy Meter (Panel Mounted)
Measured Parameters	<i>1Ø(WAVE-1P-EM):</i> V (L-N), A, W, VA, VAR, PF, Hz, kWh, kVAh <i>3Ø(WAVE-3P-EM):</i> V (L-N, L-L), A (I ₁ -I ₃), W, VA, VAR, PF (avg & phase), Hz, kWh, kVAh
Smart Display & Navigation	1-row, 6-digit bright LED display with Auto/Manual Scroll
Accuracy	±0.5% for Voltage, Current, Power, and Energy
Flexible Integration	RS-485 & MODBUS RTU (optional), programmable CT/PT ratios, multi-range auxiliary input

SPECIFICATION OF ENERGY METER

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase Digital Energy Meter
Auxiliary Supply Voltage	<ul style="list-style-type: none"> ▪ 150–300V AC / 45–270V AC/DC ▪ 19–60V AC/DC (Optional Range)
CT / PT Ratio Programmability	<ul style="list-style-type: none"> ▪ PT: Up to 500 kV (Primary), 60–600 V (Secondary) ▪ CT: Up to 50kA (Primary), 0.5–5A (Secondary)
VA Burden	<ul style="list-style-type: none"> ▪ Auxiliary Supply: <2.5 VA ▪ Voltage Input: <0.2 VA/Phase ▪ Current Input: <0.2 VA/Phase
Impulse Withstand Voltage	3.5 kV for 1.2–50 μ s
Details of Parameter's Measured	RMS Voltage (20–600V AC) RMS Current (0.020–10.00A AC) Active Power (0.030–6.000 kW) Power Factor (0.3 Lag – 1.0 – 0.3 Lead) Frequency (45.00–65.00 Hz) Active Energy (0–999999.99 kWh) Apparent Energy (0–999999.99 kVAh)

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	–10°C to 70°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96 × 96 mm

Display Characteristics

Display Type	1-Row, 6-Digit Bright Red LED Display
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF ENERGY METER

Electrical Panels



Building Management Systems (BMS)



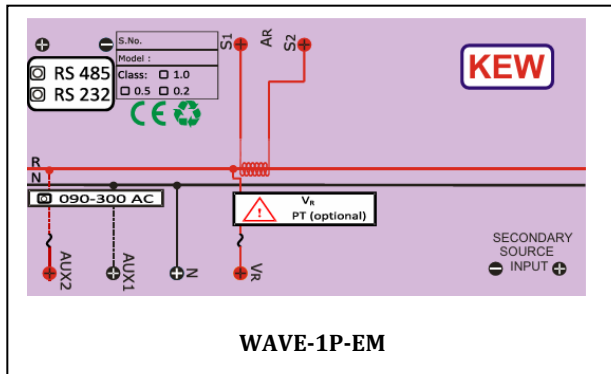
Generator / DG Set Panels



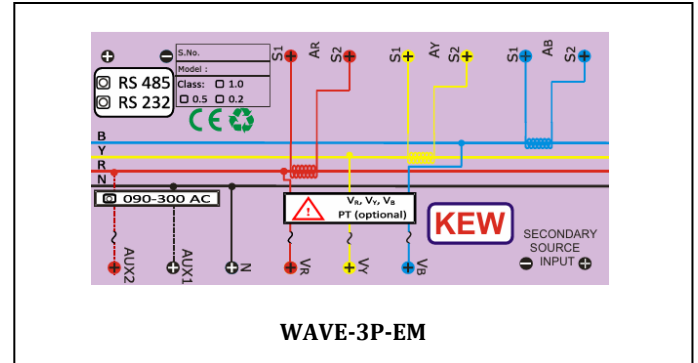
Commercial Sub-Metering / Retail Malls





Terminal Connection



Terminal Connection



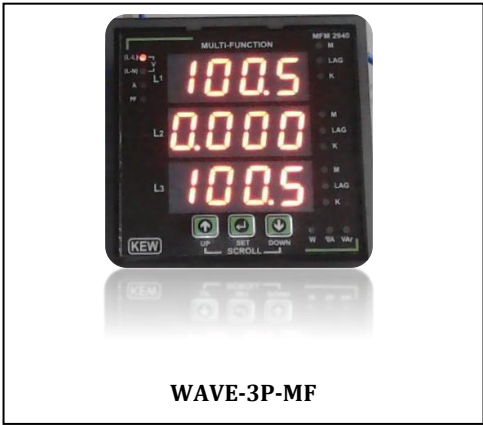
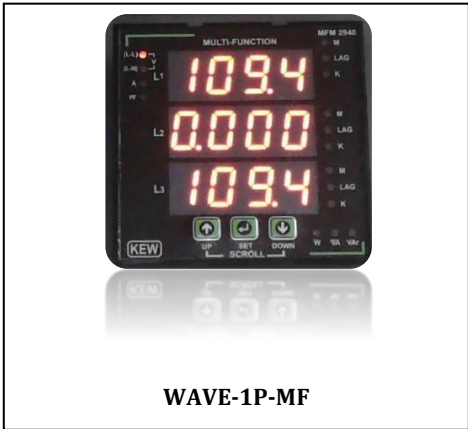
Ordering information:

MODEL	Parameters Displayed	ACCURACY CLASS	AUX SUPPLY
KEW Energy Meter (Single source) WAVE-1P-EM 	Voltage (L-N), Current, Frequency (Class 0.2), Power Factor (Class 0.5), Active Energy (kWh), Apparent Energy (kVAh), Active Power(W), Load Hours	1.0 0.5	45–270V AC/DC 19–60V AC/DC 150–300V AC
KEW Energy Meter (Three Phase) WAVE-3P-EM 	Voltage (L-N / L-L), Current, Frequency (Class 0.2), Power Factor (Class 0.5), Active Energy (kWh), Active Power (W), Apparent Energy (kVAh), Load Hours	1.0 0.5	45–270V AC/DC 19–60V AC/DC 150–300V AC

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.8: - *MULTIFUNCTION METER (SINGLE PHASE/ THREE PHASE)*



DESCRIPTION

The **KEW Wave Series Multifunction Meter** is a compact, panel-mounted AC meter available in both **Single Phase** and **3 Phase** variants. It accurately measures key electrical parameters such as **Voltage (V)**, **Current (I)**, **Power (kW, kVA, kVAR)**, **Energy (kWh, kVAh, kVARh)**, **Frequency (Hz)**, **Run/Load Hours**, and **Harmonics (VthD, IthD)**. Featuring a **3-row LED display**, **TRMS measurement**, and optional **RS-485 MODBUS communication**, it supports **programmable CT/PT ratios** for versatile energy monitoring applications. Ideal for **energy audits**, **load analysis**, and **system diagnostics** in both residential and industrial environments.

FEATURES OF KEW Multifunction Meter

Meter Type	Single Phase & Three Phase AC Multifunction Meter
Measured Parameters	1Ø (WAVE-1P-EM): V (L–N), A, W, VA, VAR, PF, Hz, kWh, kVAh, RunHour, RPM, load Hour. 3Ø (WAVE-3P-EM): V (L–N, L–L), A (I1–I3), W, VA, VAR, PF (avg & phase), Hz, kWh, kVAh, RunHour, RPM, load Hour
Smart Display & Navigation	3-row, 4-digit bright LED display with Auto/Manual Scroll
Accuracy	±0.5% for Voltage, Current, Power
Flexible Integration	Features RS-485 & MODBUS RTU communication (optional), programmable CT/PT ratios, and wide auxiliary supply support.



SPECIFICATION of KEW Multifunction Meter

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase AC Multifunction Meter
Auxiliary Supply Voltage	<ul style="list-style-type: none"> ○ 45–270 V AC/DC ○ 18–60 V AC/DC (Optional range)
CT / PT Ratio Programmability	CT Primary Range: 1A to 50kA AC (Programmable) CT Secondary Range: 0.5A to 5A AC (Programmable) PT Primary Range: 50V to 500kV AC (Programmable) PT Secondary Range: 50V to 500V AC (Programmable)
VA Burden	<ul style="list-style-type: none"> ○ Auxiliary Supply: < 1.5 VA ○ Voltage Input: < 0.2 VA /Phase ○ Current Input: <0.2 VA /Phase
Details of Parameters Measured	RMS Voltage (20–600V AC) RMS Current (0.020–10.00A AC) Active Power (0.030–6.000 kW) Power Factor (0.3 Lag – 1.0 – 0.3 Lead) Mark Frequency (45.00–65.00 Hz) Active Energy (0–999999.99 kWh) Apparent Energy (0–999999.99 kVAh)

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	0°C to 55°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	Standard: 96 × 96 mm

Display Characteristics

Display Type	4-Digit, 7-Segment RED LED (3 Rows)
Digit Height	0.56" / 14.2 mm

APPLICATIONS

Electrical Panels



Building Management Systems (BMS)



Generator / DG Set Panels



Commercial Sub-Metering / Retail Malls





KEW WAVE SERIES-PANEL METER

PRODUCT 1.9: - *LCD MULTIFUNCTION METER (THREE PHASE)*



DESCRIPTION

This three-phase multifunction meter measures over **75 electrical parameters** including Voltage, Current, Power (kW, kVA, kVAR), Power Factor, Frequency, and Energy (kWh, kVAh, kVARh) with **Class 0.5 / Class 1 accuracy**. It features a **128×64 graphical LCD display with white backlight**, offering clear visibility and **auto/manual scrolling** for ease of monitoring. The meter supports **programmable CT/PT ratios**, **TRMS measurement**, and **Phase Angle indication**. It includes **RS-485 MODBUS communication**, an optional **USB Host**, and **relay outputs** for alarms. Designed with **SMPS power supply**, **rugged insulation**, and **high dielectric strength**, it is ideal for industrial and commercial energy monitoring.

FEATURES of LCD Multifunction Meter

Meter Type	Three Phase Multifunction Meter (LCD Display)
Measured Parameters	Voltage(L-L),(L-N), Current, Power (kW, kVA, kVAR), PF, Frequency, Energy (kWh, kVAh, kVARh), THD, Demand, Load Hour, RPM
Smart Display & Navigation	128×64 Graphical LCD with White Backlight, Auto/Manual Scroll
Accuracy	±0.5% / ±0.1% for key electrical parameters
Special Features	Programmable CT/PT Ratios, Alarm Relay Outputs, TRMS Measurement, Event Logging with RTC RS-485 MODBUS RTU, USB Host (Optional)



SPECIFICATION of LCD Multifunction Meter

Electrical Characteristics: -

Meter Type	Three Phase Multifunction Meter (LCD Type)
Auxiliary Supply Voltage	150–300V AC / DC, 45–270V AC / DC, 19–60V AC / DC
CT / PT Ratio Programmability	User Programmable via Keypad CT Ratio Range: 1–9999 PT Ratio Range: 1–9999
VA Burden	Auxiliary Supply: < 2.5 VA Voltage Input: < 0.2 VA/Phase Current Input: < 0.2 VA/Phase
Input CT/PT Programable Range	CT Input: 0.020A – 10.00A / 0.5A to 50A AC (Programmable) PT Input: 50V to 500kV AC (Programmable)
Power & Energy	Active Power: 0.030–6.000 kW ($\pm 0.5\%$ ES ± 1 dgt) Apparent Power: 0.030–6.000 kVA ($\pm 0.5\%$ ES ± 1 dgt) Reactive Power: 0.030–6.000 kVAr ($\pm 1.0\%$ ES ± 1 dgt) Power Factor: 0.3 Lag–1.0–0.3 Lead (± 0.01 PE ± 1 dgt) Active Energy: 0.00000–999999.99 kWh (Class 1.0S) Apparent Energy: 0.00000–999999.99 kVAh (Class 1.0S) Reactive Energy: 0.00000–999999.99 kVarh (Class 1.0S)

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	0°C to 55°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	Standard: 96 × 96 mm

Display Characteristics

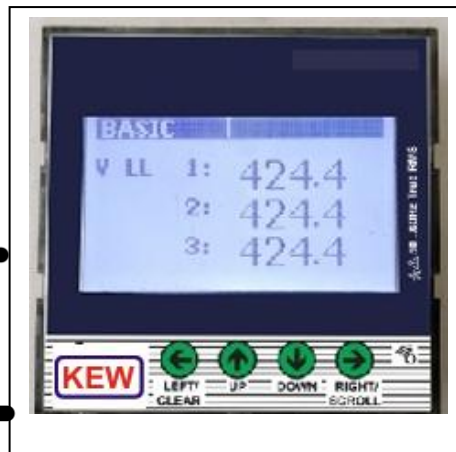
Display Type	128x64 Graphical LCD, White Backlight (Multi-Page)
Digit Height	0.56" / 14.2 mm

APPLICATIONS

Electrical Panels



Building Management Systems (BMS)



Generator / DG Set Panels



Commercial Sub-Metering / Retail Malls

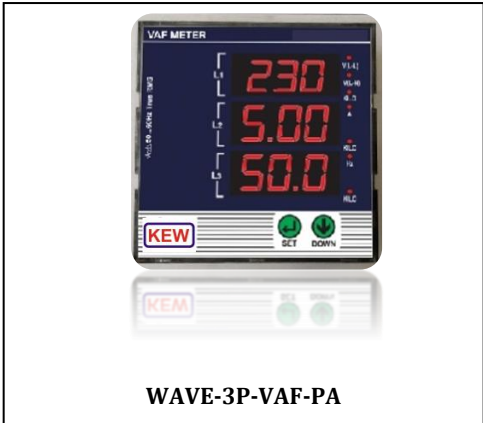


KEW WAVE SERIES-PANEL METER

PRODUCT 1.10: - AC VAF METER (THREE PHASE)



WAVE-3P-VAF-A



WAVE-3P-VAF-PA

DESCRIPTION

This VAF meter is designed for accurate measurement of **Voltage, Current, Frequency, Power Factor, RPM, Run Hour & Load Hour** in both **Single Phase** and **Three Phase** systems. It features **TRMS measurement, programmable CT/PT ratios, and auto/manual scroll display**. The meter supports **3-phase 4-wire, 3-phase 3-wire, and 1-phase 2-wire** configurations. It includes **Run Hour/Load Hour reset** and **RPM display** with pole setting. The device provides a **bright 3-row 4-digit LED display**, user-selectable decimal point, and wide **auxiliary supply** range support. Optional **RS-485 communication** is available for remote monitoring. It ensures high accuracy and is suitable for a wide range of industrial and utility applications.

FEATURES OF VAF METER

Meter Type	Single Phase & Three Phase VAF Programmable Meter
Measured Parameters	V (L-L, L-N), A, Hz (Class 0.2), PF (Class 0.5), RPM, Rh, Lrh
Smart Display & Navigation	3-row, 4-digit bright LED display with Auto/Manual Scroll
Accuracy	$\pm 0.1\%$ to $\pm 0.5\%$ for Voltage, Current, Frequency, Power
Flexible Integration	Supports programmable CT/PT ratios, run hour/load hour reset, RPM pole setting, wide auxiliary supply, and optional MODBUS communication

SPECIFICATION OF VAF METER

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase VAF Meter
Auxiliary Supply Voltage	45–270 V AC/DC, 150–300 V AC (TX Supply), 19–90 V AC/DC
CT / PT Ratio Programmability	CT Primary Range: 1A to 50kA AC (Programmable) CT Secondary Range: 0.5A to 5A AC (Programmable) PT Primary Range: 50V to 500kV AC (Programmable) PT Secondary Range: 50V to 500V AC (Programmable)
VA Burden	Auxiliary Supply: < 2.5 VA Voltage Input: < 0.2 VA / Phase Current Input: < 0.2 VA / Phase
Input CT/PT Programmable Range	CT: 1 A to 50 kA PT: 50 V to 500 kV
Impulse Withstand Voltage	3.5 kV for 1.2–50 μ s

Environmental Characteristics: -

Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 60°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96×96 mm

Display Characteristics

Display Type	3-Row, 4-Digit 7-Segment RED LED
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF VAF METER

Electrical Panels



Building Management Systems (BMS)



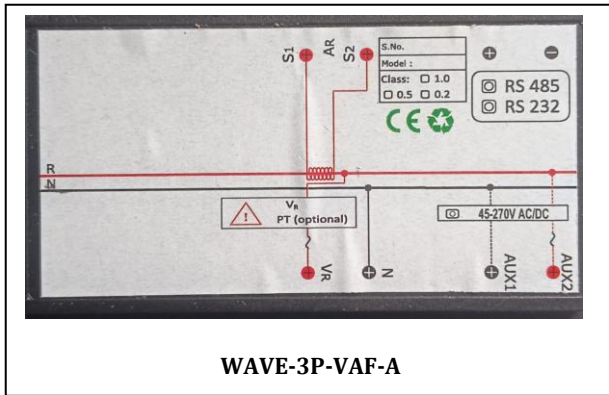
Generator / DG Set Panels



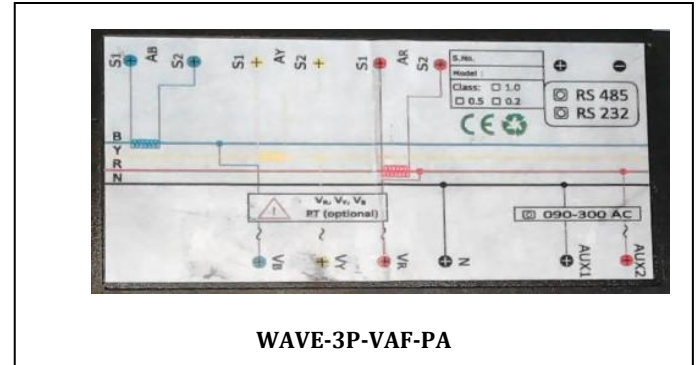
Commercial Sub-Metering / Retail Malls





Terminal Connection



Terminal Connection



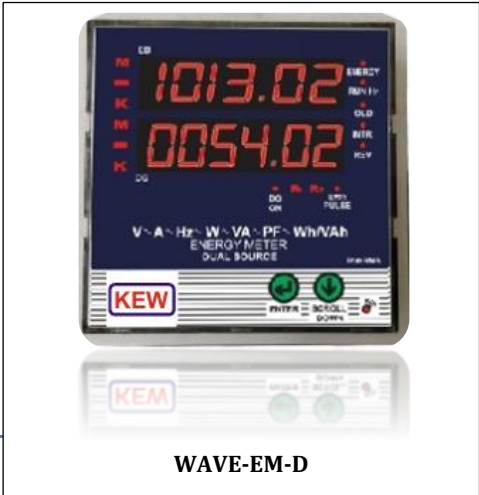
Ordering information:

MODEL	Measuring Range	ACCURACY CLASS	AUX SUPPLY
KEW VAF Meter (Single Phase) 	Voltage (Line to Line) Voltage (Line to Neutral) Current Frequency (Class 0.2) RPM Load Hours	<u>1.0</u> <u>0.5</u>	<ul style="list-style-type: none"> • 150–300V AC (TX Supply) • 45–270V AC/DC • 19–60V AC/DC
KEW VAF METER (Three Phase) 	Voltage (Line to Line) Voltage (Line to Neutral) Current Frequency (Class 0.2) Power Factor (Cos Φ) RPM, Load Hours, Run Hou	<u>1.0</u> <u>0.5</u>	<ul style="list-style-type: none"> • 45–270V AC/DC • 19–60V AC/DC

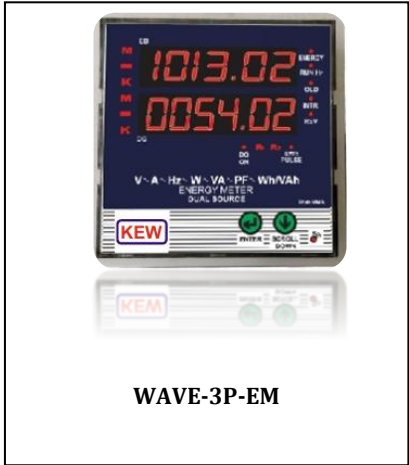
*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.11: - *ENERGY METER/INTEGRATED METER (DUAL SOURCE)*



WAVE-EM-D



WAVE-3P-EM

DESCRIPTION

The **KEW Energy Meter** are compact, panel-mounted **energy meters** designed for **Single Source** and **Dual Source** systems. They accurately measure parameters like **Voltage, Current, Power (kW), Power Factor, Frequency, Energy (kWh, kVAh), and Load Hours** using **True RMS** technology. Featuring a bright **6-digit LED display** with **auto/manual scrolling**, they offer clear and user-friendly monitoring. These meters support **programmable CT/PT ratios**, along with **energy accumulation, reverse lock, and reset options**. Optional **RS-485 & MODBUS RTU communication** and **relay output** enable remote monitoring and control. Built to **IEC/EN61010-1** standards with **±0.5% accuracy**, they're ideal for **energy audits, load profiling**.

FEATURES of ENERGY METER

Meter Type	Single Source & Three Source Digital Energy Meter (Panel Mounted)
Measured Parameters	1Ø: V (L-N), A, W, VA, VAR, PF, Hz, kWh, kVAh, DG Load Hours 3Ø: V (L-N, L-L), A (I ₁ -I ₃), W, VA, VAR, PF (avg & phase), Hz, kWh, kVAh, DG Load Hours
Smart Display & Navigation	1-row, 6-digit bright LED display with Auto/Manual Scroll
Accuracy	±0.5% for Voltage, Current, Power, and Energy
Flexible Integration	RS-485 MODBUS RTU (optional), programmable CT/PT ratios, multi-range auxiliary input

SPECIFICATION OF ENERGY METER

Electrical Characteristics: -

Meter Type	Single Source / Three Source Digital Energy Meter
Auxiliary Supply Voltage	<ul style="list-style-type: none"> ▪ 150–300V AC / 45–270V AC/DC ▪ 19–60V AC/DC (Optional Range)
CT / PT Ratio Programmability	PT Primary: 50 to 500kV AC, PT Secondary: 50 to 500V AC, CT Primary: 1A to 50kA AC, CT Secondary: 0.5A to 5A AC
VA Burden	<ul style="list-style-type: none"> ▪ Auxiliary Supply: <1.5 VA ▪ Voltage Input: <0.2 VA/Phase ▪ Current Input: <0.2 VA/Phase
Parameters to measured	V (RMS Voltage 20–600V), A (RMS Current 0.020–10.00A), kW (Active Power 0.030–6.000), PF (0.3 Lag–1.0–0.3 Lead), Hz (45–65), kWh (0–999999.99), kVAh (0–999999.99)
Impulse Withstand Voltage	3.5 kV for 1.2–50 μ s

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	–10°C to 70°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96 × 96 mm

Display Characteristics

Display Type	1-Row, 6-Digit Bright Red LED Display
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF ENERGY METER

Electrical Panels



Building Management Systems (BMS)



Generator / DG Set Panels



Commercial Sub-Metering / Retail Malls



KEW WAVE SERIES-PANEL METER

PRODUCT 1.12: - AC FREQUENCY METER



BG Hz



SG Hz



RECT Hz



BG F3

DESCRIPTION

AC Frequency Meters are designed to measure and display the system frequency with high precision. These meters support True RMS measurement, covering input ranges from **40–615 Hz**. The display features a 4-digit red LED with auto scrolling and fast refresh rates for real-time monitoring. With a maximum count of 9999, they are available in compact models like **BG Hz**, **SG Hz**, **RECT Hz**, and **BG F3**. The meters support RS-485 communication and optional relay output for alarms. Built using FR-ABS housing with a transparent polycarbonate front, they offer rugged durability. Power supply options include **150–300V AC**, **45–270V AC/DC**, and **19–60V AC/DC**. These panel-mount meters comply with IEC62052-11 standards, making them ideal for industrial use.

FEATURES OF AC FREQUENCY METER

Meter Type	Single Phase & Three Phase AC Frequency Meter
Measured Parameters	Frequency (Hz) – True RMS Measurement
Smart Display & Navigation	Auto/manual scroll, password protection, push-button interface
Accuracy	±0.2% of Full Scale
Input Frequency Range	40–615 Hz

SPECIFICATION of AC FREQUENCY METER

Electrical Characteristics: -

Meter Type	Single Phase / Three Phase AC Frequency Meter
Auxiliary Supply Voltage	150–300V AC (TX Supply), 45–270V AC/DC, 19–60V AC/DC
Maximum Overload	Voltage: 1.2 Times Continuous
VA Burden	Auxiliary: ≤ 1.5 VA
Impulse Withstand Voltage	3.5 kV, 1.2/50 micro sec
Dielectric Strength	2.5 kV @ 50 Hz for 1 minute (Auxiliary, Case to Terminal)

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	-10°C to +70°C, RH<70%

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96 × 96 mm (BG Hz / BG F3), 72 × 72 mm (SG Hz), 48 × 96 mm (RECT Hz)

Display Characteristics

Display Type	4-Digit, 7-Segment RED LED (1 Row)
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF AC FREQUENCY METER

Electrical Panels



Building Management Systems (BMS)



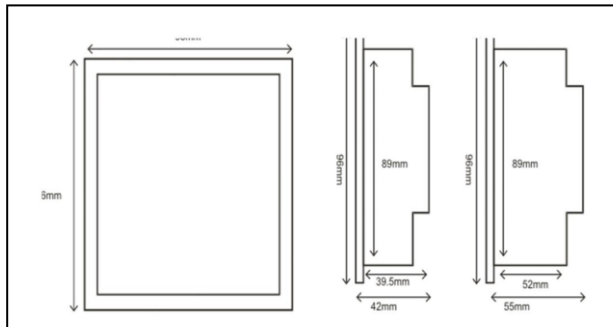
Generator / DG Set Panels



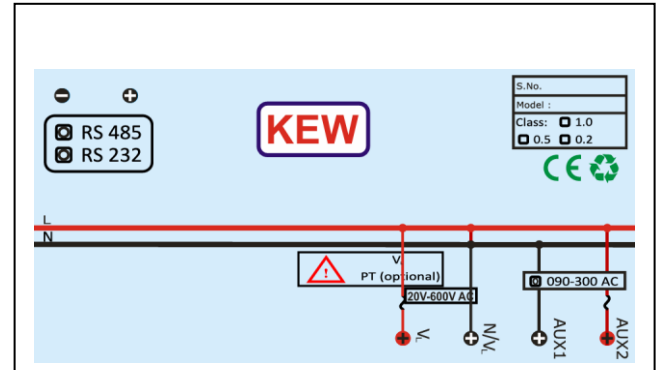
Commercial Sub-Metering / Retail Malls







Panel Cutout



Terminal Connection



Ordering information:

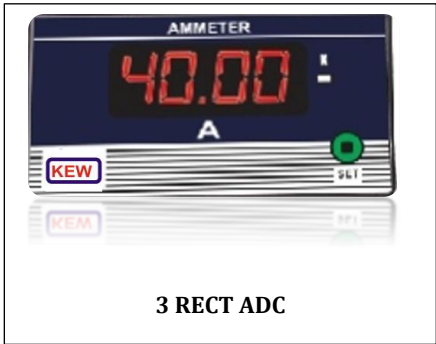
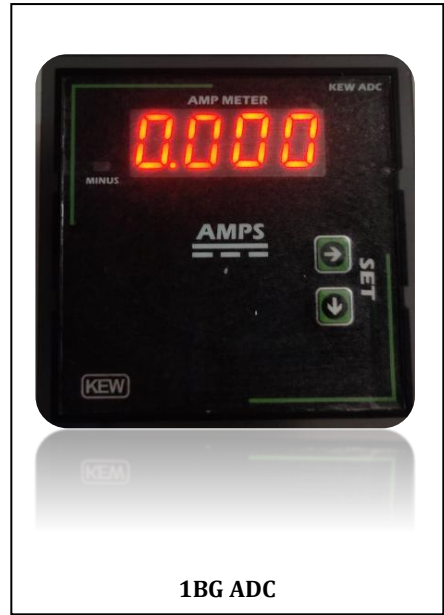
Model	Dimensions(mm)	Measuring Range	Accuracy Class	Aux Supply Options
KEW BG FM 	96*96	40–615 Hz	0.2% of Full Scale	50–300V AC (TX Supply), 45–270V AC/DC, 19–60V AC/DC
KEW SG FM 	72*72	40–615 Hz	0.2% of Full Scale	150–300V AC (TX Supply), 45–270V AC/DC, 19–60V AC/DC
KEW RECT FM 	48*96	40–615 Hz	0.2% of Full Scale	45–270V AC/DC
KEW BG F3 	96*96	40–615 Hz	0.2% of Full Scale	150–300V AC (TX Supply), 45–270V AC/DC, 19–60V AC/DC

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES



KEW WAVE SERIES-PANEL METER

PRODUCT 1.2: - DC AMMETER



DESCRIPTION

KEW DC Ammeters are designed for accurate measurement of DC current in a wide range of applications like solar systems, battery banks, and control panels. They support both **direct and shunt inputs** with programmable ranges. The meters feature a **4-digit bright LED display** and **push-button navigation**. Multiple input options (0–20A direct / 60mV / 75mV) are available for flexible integration. **Password protection** ensures secure usage. Optional **RS-485 communication** supports remote monitoring. Wide **auxiliary supply compatibility** (150–300V AC, 45–270V AC/DC, 19–60V AC/DC) and **Class 1.0 accuracy** make it a reliable choice. Built to IEC60255-11 standards with a rugged ABS body.

FEATURES OF DC AMMETER

Meter Type	DC AMMETER
Measured Parameters	DC Current – Direct & Shunt Input Selection (0–20A Direct, 0–75mV/60mV DC Shunt)
Smart Display & Navigation	4-digit LED display with Auto/Manual Scroll, Password Protected
Accuracy	±0.1% to ±0.5% for Current
Flexible Integration	RS-485 (optional), selectable measuring ranges, relay output (optional), wide auxiliary supply



SPECIFICATION OF DC AMMETER

Electrical Characteristics: -

Meter Type	<u>DC Ammeter</u>
Input Current Range	0–20A DIRECT, 0–75mV/60mV DC (Shunt Input)
Shunt Range Programmability	1A to 50A programmable
VA Burden	Auxiliary Supply: <1.5 VA Current Input: <1.0 VA
Auxiliary Supply	150–300V AC, 45–270V AC/DC, 19–60V AC/DC
Impulse Withstand Voltage	3.5 kV for 1.2/50 μ s

Environmental Characteristics: -

Operating Temperature	0°C to 60°C
Storage Temperature	0°C to 70°C

Mechanical Characteristics: -

Mounting Type	Panel Mount
Panel Dimensions	96*96mm , 72*72mm , 48*96mm

Display Characteristics

Display Type	4 Digit Red LED Super Bright Display
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF DC AMMETER

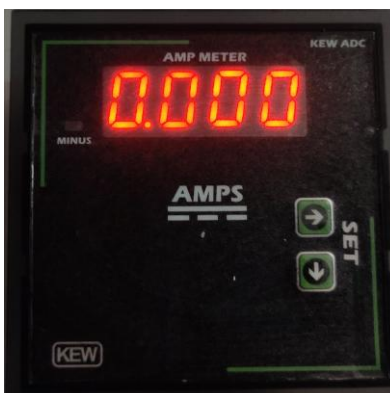
Battery Banks & Charging Systems



Solar Power Installations



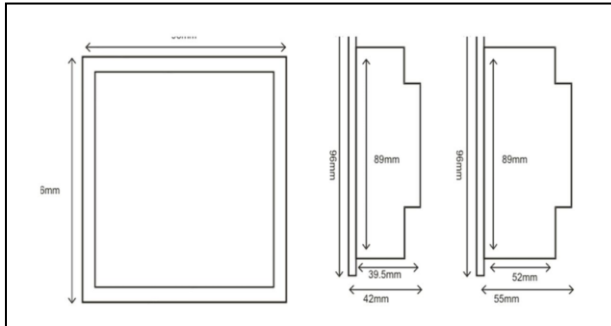
DC Panels and Distribution Boards



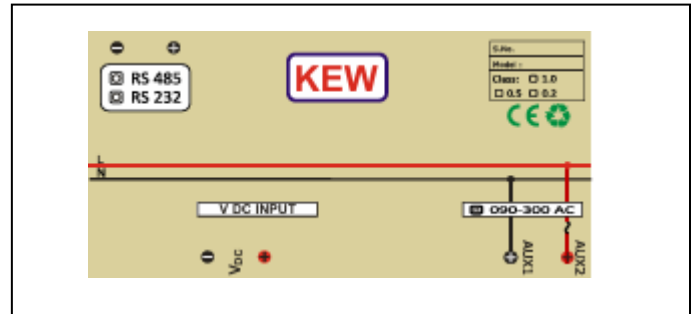
Telecom Power Supplies



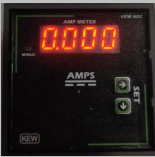
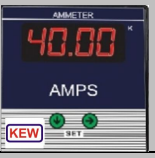

Panel Cutout



Terminal Connection

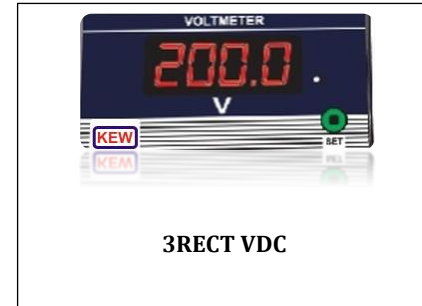
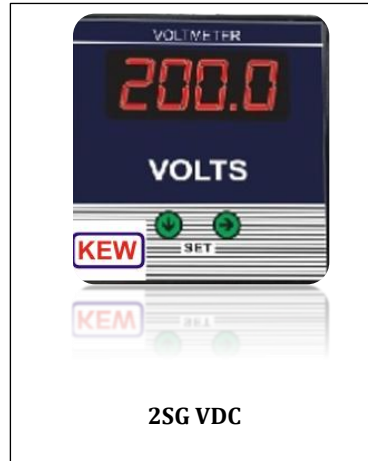
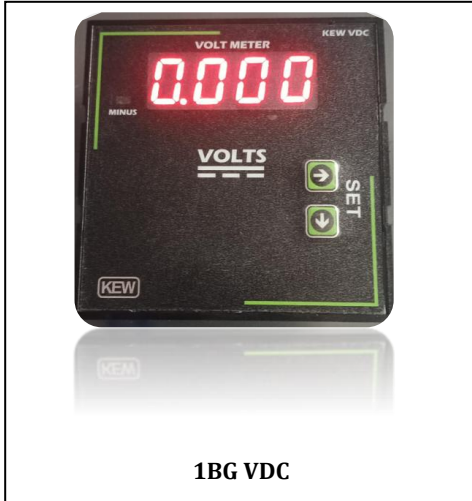


Ordering information:

MODEL	Measuring Range	Accuracy Class	Auxiliary Supply
BG ADC 	0–10A DC (DIRECT) 0–20A DC (DIRECT) 0–75mV (SHUNT INPUT) 0–60mV (SHUNT INPUT) 75–0–75 mV (SHUNT OR TRANSDUCER I/P) 60–0–60 mV (SHUNT OR TRANSDUCER I/P)	1.0 0.5	150–300V AC (TX Supply) 45–270V AC /DC 19–60V AC /DC
SG ADC 	0–10A DC (DIRECT) 0–20A DC (DIRECT) 0–75mV (SHUNT INPUT) 0–60mV (SHUNT INPUT)	1.0 0.5	150–300V AC (TX Supply) 45–270V AC /DC 19–60V AC /DC
RECT ADC 	75–0–75 mV (SHUNT OR TRANSDUCER I/P) 60–0–60 mV (SHUNT OR TRANSDUCER I/P)		45–270V AC /DC

KEW WAVE SERIES-PANEL METER

PRODUCT 1.1: - DC VOLT METERS



DESCRIPTION

DC Voltmeters are designed to measure DC voltage in single or multiple ranges with high precision. It features a **4-digit LED super bright display**, available in various models like **BG, SG, and RECT**. Voltage ranges include **0–10V, 0–20V, 0–30V, 0–300V, and 0–800V DC**. These meters are ideal for monitoring DC circuits in industrial and panel applications. The meter supports **RS-485 communication, auto/manual scrolling, and TX-type auxiliary supply** options. It offers an accuracy class of **0.5 or 1.0**, with **fast response (refresh rate: 8.0ms)** and compact panel designs. A **relay alarm output** is also available optionally.

FEATURES OF DC VOLTMETER

Meter Type	DC Volt Meter
Measured Parameters	Voltage (DC)
Smart Display & Navigation	4-digit bright LED display with Auto/Manual Scroll
Accuracy	$\pm 0.1\%$ to $\pm 0.5\%$ for Voltage
Flexible Integration	RS-485 communication (optional), relay output (optional), and multiple auxiliary supply options

SPECIFICATION OF DC VOLTMETER

Electrical Characteristics: -

Input Voltage Range	0–10V, 0–20V, 0–50V, 0–75V, 0–300V, 0–600V, 0–800V DC
Resolution	0.0001 to 1 Count (Based on Range/Scale)
Maximum Overload	Voltage: 1.2 Times Continuous
VA Burden	<1.5 VA
Auxiliary Supply	150–300V AC / DC, 45–270V AC / DC, 19–60V AC / DC,
Refresh Rate	Per 8.0ms

Environmental Characteristics: -

Operating Temperature	0°C to +60°C, RH<70%
Storage Temperature	-10°C to +70°C, RH<70%

Mechanical Characteristics: -

Mounting Type	Panel Mount
Connectors / Terminal	Nylon 66, 33%GF, Black/Brass

Display Characteristics

Display Type	4 Digit Red LED Super Bright Display
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF DC VOLTMETER

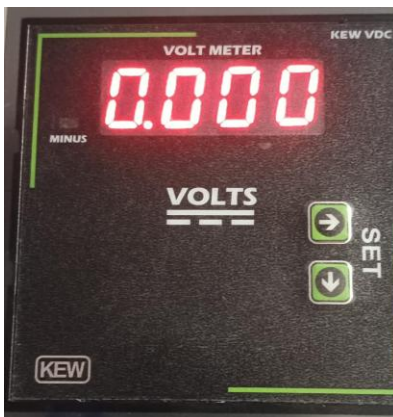
Battery Banks & Charging Systems



Solar Power Installations



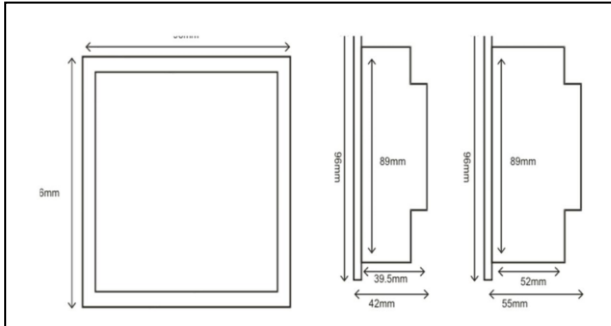
DC Panels and Distribution Boards



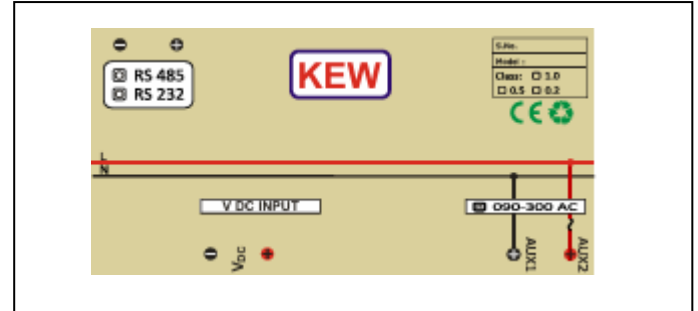
Telecom Power Supplies






Panel Cutout



Terminal Connection



Ordering information:

MODEL	Measuring Range	Accuracy Class	Auxiliary Supply
BG 1V 	0-10V DC 0-20V DC 0-50V DC 0-100V DC	0.5	150-300V AC (TX Supply) 45-270V AC /DC 19-60V AC /DC
	0-200 V DC 03-750V DC	1.0 0.5	
SG 1V 	03-750V DC	1.0 0.5	150-300V AC (TX Supply) 45-270V AC /DC 19-60V AC /DC
RECT 1V 	03-750V DC	1.0 0.5	45-270V AC /DC

*WHILE ORDERING PLEASE MENTION RANGE, CLASS & AUX SUPPLY & FOR BULK CUSTOMIZED INQUIRIES

KEW WAVE SERIES-PANEL METER

PRODUCT 1.3: - DC VAMETERS



1BG DCVA



2SG DCVA

DESCRIPTION

DC VA Meters are advanced digital panel meters that display both DC voltage and current simultaneously. They support direct and shunt input methods with configurable range options up to 800V and 50A. The meter features a bright 4-digit LED display with auto/manual scrolling for easy parameter viewing. Designed for panel mounting, it comes with RS-485 MODBUS support (optional) and password protection for secure access. Compact and rugged with wide auxiliary supply support, it ensures stable and accurate readings. Negative scale and relay alarm options are available on request. Ideal for battery banks, solar systems, and DC distribution panels.

FEATURES OF DC VAMETERS

Meter Type	DC Voltage & DC Current Panel Meter (Dual Display)
Measured Parameters	DC Voltage (0–800V), DC Current (0–50A), Direct or Shunt input selectable
Smart Display & Navigation	4-digit LED display with Auto/Manual Scroll, Password Protected
Accuracy	±0.1% to ±0.5% for Voltage & Current (Model dependent)
Flexible Integration	RS-485 MODBUS RTU communication (optional), programmable shunt range, wide aux supply

SPECIFICATION OF DC VAMETERS

Electrical Characteristics: -

Meter Type	DC Voltage & DC Current Panel Meter (Dual Display)
Input Type	Voltage: 0–750V DC (Direct), Current: 0–20A DC (Direct) / 0–75mV–60mV (Shunt)
Shunt Range Programmability	1A to 50 kA programmable
VA Burden	Aux Supply: ≤ 1.5 VA, Voltage Input: ≤ 1.0 VA, Current Input: ≤ 1.0 VA
Auxiliary Supply	150–300V AC, 45–270V AC / DC, 19–60V AC / DC
Impulse Withstand Voltage	3.5 kV for 1.2/50 μ s

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 (BG DCVA), 68 \times 68 mm (SG DCVA)

Display Characteristics

Display Type	4 Digit Red LED Super Bright Display
Digit Height	0.56" / 14.2 mm

APPLICATIONS OF DC VAMETERS

Battery Banks & Charging Systems



Solar Power Installations



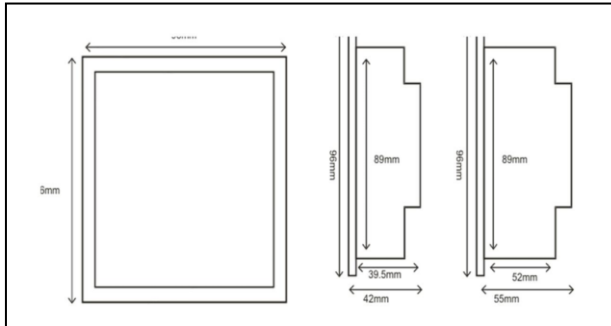
DC Panels and Distribution Boards



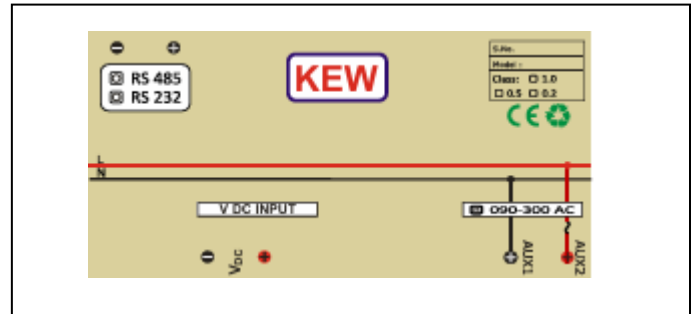
Telecom Power Supplies





Panel Cutout



Terminal Connection



Ordering information:

MODEL	Measuring Range		Accuracy Class	Auxiliary Supply
BG DCVA 	V 0-10V DC 0-20V DC 0-50V DC 0-100V DC 0-200 V DC	A 0-10A DC (DIRECT) 0-20A DC (DIRECT) 0-75mV (SHUNT INPUT) 0-60mV (SHUNT INPUT) -75-0-75 mV (SHUNT OR TRANSDUCER I/P) -60-0-60 mV (SHUNT OR TRANSDUCER I/P)	1.0 0.5	150-300V AC (TX Supply) 45-270V AC /DC 19-60V AC /DC
SG DCVA 	03-750V DC		1.0 0.5	150-300V AC (TX Supply) 45-270V AC /DC 19-60V AC /DC

KEW WAVE SERIES-PANEL METER

PRODUCT 1.4: - FOUR CHANNEL DC KWH METER



SG-4CHEMFL



BG 4CHEMTL

DESCRIPTION

The BG-4CHEMTL / 4CHEMFL 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 999999kWh. All five input channels are fully isolated, and group switching between channels 2, 3, and 4 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	$\pm 0.5\%$ 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



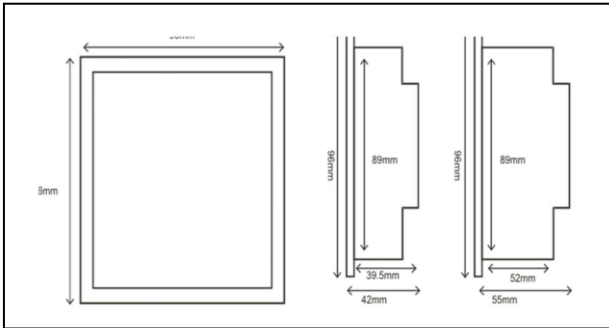
DC Panels and Distribution Boards



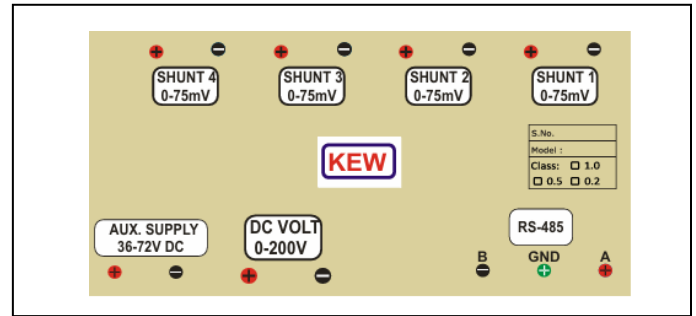
Telecom Power Supplies



Panel Cutout



Terminal Connection



Ordering information:

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