

KCVM-C11 Power Quality Analyzer

Three Phase Values

Active Energy (kWh) Generated & Consumed
kVarhC Generated & Consumed
kVarhI Generated & Consumed
Max kW Demand
Max Kva Demand kVAR
Power Factor kWh Cost
kWh CO2 Emissions
Three Tariffs
LCD Display Shows Correct / Incorrect Field
Wiring Total Harmonic Distortion: Voltage & Amperag

Values per Phase:

Voltage: Ph / N, Ph / Ph
Amperage
kW / kVA
Reactive Power - Capacitive & Inductive Power
Factor

Outputs:

Two Digital Out
Pulse / Alarm
NPN Transistor - 50 mA @ 24 VDC Closure
Time - 100 mS

Input:

Two Digital In
NPN Transistor - 4 mA @ 17 VDC

Current Transformers:

Remote CT Operated
1 Amp or 5 Amp Secondary Up To 10,000
Amps Primary

Features:

Enclosure - NEMA 1 ABS V0 Rated Plastic
Energy Displayed: kWh, kVarLh, kVarCh
Field Programmable
Measuring Range: 120V – 480V
Minimum & Maximum Values For Each
Parameter Microprocessor / RAM Based –
No Batteries



Software:

Powerstudio

Communications:

ModBus RS485 RTU / BACnet MSTP 9,600 –
19,200 – 38,400 BPS

Technical Characteristics:

Power Supply: 100 – 270 VAC, 100 – 270 VDC
(+/- 10%)
Consumption: 2 - 7 VA (AC), 2.4 – 2.6 W (DC)
Frequency: 50 – 60 Hz

Measuring Circuit:

300V Ph / N, 520V Ph / Ph
Frequency: 45 – 65 Hz
Rated Current: /n...1A or 5A
Permanent Overload: 1.2 /n
Operating Temperature: -13 - 158 Degrees F
Relative Humidity: 5 – 95% Non Condensing
CAT III 600 Volt

Accuracy Class:

Voltage: 0.2% Current: 0.2% Power: 0.5%

Compliance:

Accuracy: ANSI C12.20
FCC: Class A Part 15
EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
EN 61000-4-5, EN 61000-4-6, EN 61000-4-8,
EN 61000-4-11, EN 61010-2-030, EN 61010-1,
EN IEC 61557-12

KCVM-C11 MODELS

MODEL	POWER SUPPLY	POWER QUADRANTS	INPUT CURRENT	TRANSISTOR OUTPUT	RELAY OUTPUT	DIGITAL INPUT	COMMUNICATIONS PROTOCOL	HARMONICS V / A
CVM-C11-ITF-IN-485-ICT2	100 - 270 Vac/Vdc	4	.../5A	2	2	2	RS-485	MODBUS BACNET 31
CVM-C11-ITF-IN-ETH-ICT2	100 - 270 Vac/Vdc	4	.../5A	2	2	2	RS-485 / ETHERNET	MODBUS BACNET 31

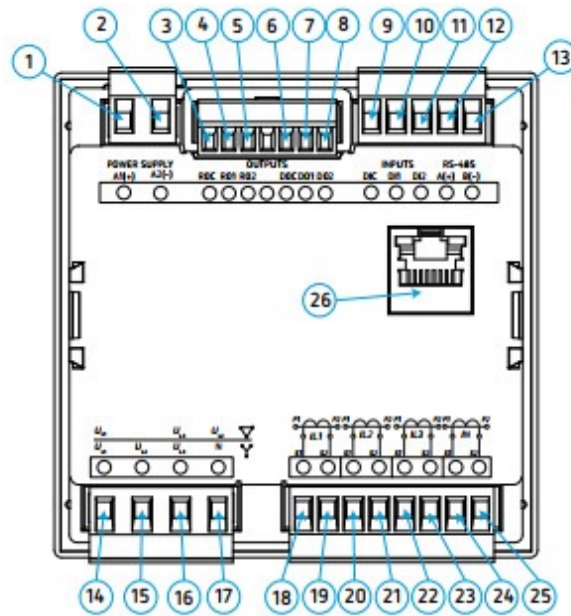


Figure 2: CVM-C11-ITF-IN-ETH-ICT2 terminals.

Table 5: List of terminals of the CVM-C11-ITF-ETH-485-ICT2.

Device terminals	
1 : A1(+), Power supply	14 : U_{L1} , Voltage input L1
2 : A2(-), Power supply	15 : U_{L2} , Voltage input L2
3 : ROC, Common relay output	16 : U_{L3} , Voltage input L3
4 : R01, Relay output 1	17 : N, Neutral / U_{L2} , Voltage input L2
5 : R02, Relay output 2	18 : S1 IL1, Current input L1
6 : DOC, Common digital outputs	19 : S2 IL1, Current input L1
7 : DO1, Digital output 1	20 : S1 IL2, Current input L2
8 : DO2, Digital output 2	21 : S2 IL2, Current input L2
9 : DIC, Common digital inputs	22 : S1 IL3, Current input L3
10 : DI1, Digital input 1	23 : S2 IL3, Current input L3
11 : DI2, Digital input 2	24 : S1 IN, Current input N
12 : A(+), RS-485	25 : S2 IN, Current input N
13 : B(-), RS-485	26 : Ethernet connector.