

KCVM-C4 POWER QUALITY ANALYZER

To continue satisfying our customers' needs, NMI offers the CVM-C4 power meter which measures, calculates and displays main electrical parameters from any industrial three phase or single-phase power system, either 2, 3 or 4 wire.

MEASUREMENTS:

Active Energy (kWh) Consumed and Generated
Reactive Energy (kVArh) Consumed and
Generated Active Power (kW)
Reactive Power (kVar)
Apparent Power (KVA)
Power Factor (PF)
THD Measuring (V & A)

Values per Phase:

Voltage
Amperage
Active Power (kW) Reactive Power (kVar)
Apparent Power (VA) THD (V & A)
Power Factor (PF)

Outputs:

Digital Output Alarming

Compliance:

Accuracy: ANSI C12.20 FCC: Class A Part 15

Features:

Energy Displayed: kWh, kVarh
Field Programmable
Eight Digit Energy Values
Four Digit Instantaneous Values Measuring
Range: 120-480 VAC
Data Communications and Relays Power and
Harmonic Values Displayed

Communications:

Modbus RS485 RTU (2,400 – 19,200 bps)



Technical Characteristics:

Power Supply: 80 – 270 VAC or 18 – 36 VDC
Consumption: 1.5 – 2.2 VA
Frequency: 50 / 60 Hz

Measuring Circuit:

Rated Voltage: 300 VAC Phase to Neutral / 520
VAC Phase to Phase
Frequency: 50 – 60 Hz
Voltage Circuit Consumption: 0.2 VA Rated
Current /n: 1A or 5 A
Permanent Overload: 1.2 /n
Operating Temperature: 14 – 140 Degrees F
Relative Humidity: 5 – 95% Non Condensing

Class:

Voltage & Current: 0.2% Power & Energy: 0.5%

Relay Outputs:

250 VAC, 5 AMPs (Max)

KCVM-C4 MODELS

CVM-C4			
Model	Power supply		
	80... 270 V ~	80... 270 V ==	18... 36 V ==
M52706	✓	✓	-
M527060030000	-	-	✓

METER CUT OUT DIMENSIONS: 3.583" X 3.583"

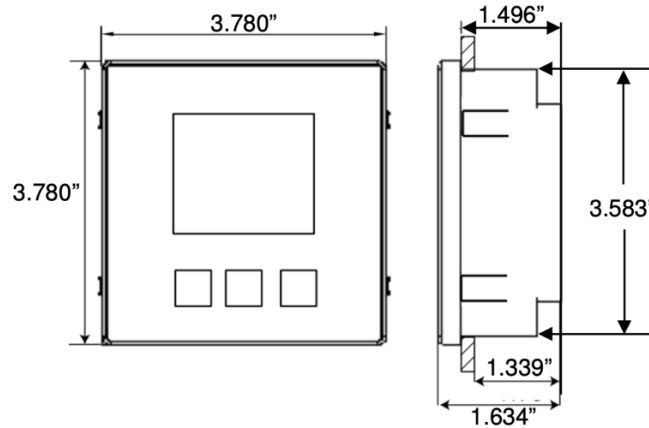


Table 4: List of CVM-C4 terminals

Device terminals	
1: L/+, Power supply	15: RO1, Relay Output 1 (Common)
2: N/-, Power supply	16: Relay Output 1 (NO) / Relay Output 2 (Common)
4: I1 S1, Current input L1	17: RO2: Relay output 2 (NO)
5: I1 S2, Current input L1	47: +, Impulse output 1
6: I2 S1, Current input L2	48: -, Impulse output 1
7: I2 S2, Current input L2	49: +, Impulse output 2
8: I3 S1, Current input L3	50: -, Impulse output 2
9: I3 S2, Current input L3	58: A, RS-485
11: U1, Voltage input L1	59: B, RS-485
12: U2, Voltage input L2	70: Common digital inputs
13: U3, Voltage input L3	71: DI1, Digital input 1
14: UN / U2, Voltage input N/L2	72: DI2, Digital input 2

