



CMM96 Generator Controller and Motor Protection Meter

To satisfy our customers' needs, NMI offers the CMM96 power meter, which measures, calculates, and displays main electrical parameters (Volts / Amps) from any industrial three-phase, or single phase power system, either 2, 3 or 4 wire configurations.

Measured Parameters:

True RMS voltage measurements of field programmable phase to phase or phase to neutral readings. Three phase Voltage and current averages are available. Frequency range of operation is 0.1 Hz resolution between 20 – 600 Hz. The CMM 96 will also compute the unbalance voltage and current (Unb). This value is very important in the protection and maintenance of motor loads.

Maximum current readings are displayed (MD), which is similar to kW demand except the measurements are in Amps not Watts. This measurement is extremely important to determine if the service or circuit is large enough to handle the overall load.

The Demand Interval is field selectable between 5 – 60 minutes. The sliding window method is used in demand calculations.

Memory Parameters:

Memory storage of all the peak readings during power outages. Four (4) programmable relay alarms are available. One Relay maybe used for high or low voltage. The second relay maybe used for high or low amperage. The third relay maybe used for a percentage of motor load unbalance. The fourth relay can notify the customer when a time for maintenance, in hours, has occurred.

Features:

Values Displayed: Volts and Amps
Field Programmable
Three – Four Digit – LED Displays
Measuring Range: 120–480 VAC (by model)
Four Relays
LEDs Indicate Displayed Values
Minimum and Maximum Values for Each Parameter

Relay Specifications:

Nominal current AC - 5 A
Maximum voltage - 250 VAC
Maximum resistive load - 750 VA
Insulation resistance (at 500 VDC) >1000 MΩ
Insulation contact - coil 2 kV
Insulation contact - contact 750 V c.a.
Mechanical life (no. of operations) - 20×10^3
Electrical life (8 A, 250 VAC) (no. of operations) 30×10^6



Model:

M20511-M20522

TECHNICAL CHARACTERISTICS:

Power supply circuit (*) 120 - 480 VAC (+/-15%)
Consumption 5 VA (*) Model Specific
Consumption with relays 7 VA
Frequency 35...450 Hz

Measuring circuit:

Rated voltage 400 VAC phase-neutral /
565 VAC phase-phase
Frequency 35...450 Hz
Voltage circuit consumption 0.75 VA
Current Input 5 Amps
Rated current $I_n \dots /5 A$
Permanent overload 1.2 I_n
Current Burden 0.6 VA
Operating Temperature 14 – 149 Degrees F

Class:

Voltage 0.5 % ± 2 digits
Current 0.5 % ± 2 digits

Dimensions:

