



NRG 96 Power Quality Analyzer

To satisfy our customers' needs, NMI offers the NRG96 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 configurations.

MEASUREMENTS:

Three Phase Values:

Active Energy (kWh)
Inductive Reactive Energy (kVarhL)
Capacitive Reactive Energy (kVarhC)
Apparent Power (kVA)
Active Power (kW)
Power Factor (PF)
THD Measuring (V, A) (Optional)
Harmonic decomposition up to the 31st
Inductive Reactive Power (kVarL)
Capacitive Reactive Power (kVarC)
Maximum Demand

Values Per Phase:

Voltage
Current
Reactive Power (+) and (-)
THD (V and A)
Power Factor

Outputs:

Digital Out
Alarming

Compliance:

Accuracy: ANSI C12.16
FCC: Class A Part 15

Features:

Energy Displayed kWh, kVarLh, kVarCh
Field Programmable
Three – Four Digit – LCD Displays
One Six Digit kWh Display
Measuring Range: 120–480 VAC
Data Communications and Relays
Minimum and Maximum Values for Each Parameter
Power and Harmonic Values Displayed

Communication Options:

Modbus RS485 RTU



Technical Characteristics:

Power supply circuit: 85 - 265 VAC (+10% / -15%)
Consumption 5 VA
Frequency 45...65 Hz

Measuring circuit:

Rated voltage 300 VAC phase-neutral /
520 VAC phase-phase
Frequency 45...65 Hz
Voltage circuit consumption 0.75 VA
Rated current I_n .../5 A
Permanent overload 1.1 I_n
Operating Temperature 14 – 122 Degrees F
Relative Humidity 5 – 95% Non Condensing

Class:

Voltage
Current
Power
0.5 % \pm 2 digits
0.5 % \pm 2 digits
1 % \pm 2 digits

Digital Output transistor:

Maximum operating power 50 mA
Maximum operating voltage 24 VDC
Closure Time: 100 mS

NRG 96 Models

Quadrants	Class (V, A)	Communications MODBUS / RTU Protocol	Digital output	Universal power supply	Harmonics	Type	Code
4	0,5	-	-	Yes	-	CVM-NRG 96	M51800
4	0,5	-	-	Yes	-	CVM-NRG 96-ITF	M51900
4	0,5	RS-485	1	Yes	-	CVM-NRG 96-ITF, RS485 C	M51911
4	0,5	RS-485	1	Yes	V and I (15°)	CVM-NRG 96-ITF-HAR, RS485 C	M51B11

Dimensions

