

DM-III Multitest F Power Quality Recorder



- True RMS (TRMS)
- Measures and Records Broad Spectrum of Power Quality Parameters: AC Current, AC Voltage to 600V including Sags and Surges, Harmonics (THD and individual up to 49th), Active, Reactive and Apparent Power & Energy, Peak Demand, Power Factor, Frequency measurement, Phase sequence
- Compatible with wide range of Current Transducers
- Comes as a complete kit: CTs, Voltage Leads, Ground Probes & Leads, PC software and download cable are included with this product.
- Works with single and three phase systems (Y and Delta)
- Detects and records voltage anomalies, Sags and Surges
- Built in scope displays waveforms
- Phase sequence indication
- Records up to 64 parameters (single or three phase) simultaneously
- Manual and programmable recording start
- Password protection
- Selectable fundamental frequency of 50 or 60 Hz
- Special data compression system and user selectable rates allow recording from several hours to several years
- Download capabilities, Windows compatible PC software
- Displacement power factor for power factor correction determination
- Line or battery powered
- Megohmmeter functions: Tests insulation of wires, cables, transformers and electrical motors
- Selectable test voltages up to 1000V
- Programmable timer to perform the Dielectric Absorption Ratio Test
- Sensitive Ohmmeter for checking resistance of motor windings
- Selectable polarization of ohmmeter for checking grounding continuity
- Automatic voltmeter protects against misuse on hazardous energized systems

FEATURES

Safety: CATIII, 600V Phase to phase, CATIII, 300V Phase to ground, EN 61010-1+A2(1996)

Instruction Manual: Yes

SPECIFICATIONS

Supplied Current Transducer:	AM-FLEX33 3000A Flexible 7" internal diameter CT +/- (0.5% Rdg + 2 LSD)
AC Current:	DM-CT-100: 0.5A to 100A / DM-CT-HTA: 5 - 1000A / AM-FLEX33: Selectable: 5 - 1000A or 15 - 3000A +/- (0.5% Rdg + 2 LSD)
AC Voltage including Sags and Surges:	0 - 600V +/- (0.5% Rdg + 2 LSD)
Harmonics:	THD, DC and individual up to 49th +/- (0.5% Rdg + 2 LSD)
Power:	Working (W), Reactive (VAR) and Apparent (VA) +/- (1.0% Rdg + 2 LSD)
Energy:	Working (kWh), Reactive (VARh) and Apparent (VAh) +/- (1.0% Rdg + 2 LSD)
Peak Demand:	KW +/- (1.0% Rdg + 2 LSD)
Power Factor:	0.00 - 1.00
Frequency measurement:	57 to 63.6 Hz at 60Hz fundamental 47 to 53 Hz at 50Hz fundamental +/- (1.0% Rdg + 2 LSD)
Phase sequence:	1 - 2 - 3
Co-generation:	Computes incoming and outgoing energy
Selectable Fundamental Frequencies:	50/60 Hz
Available Recording Time:	Several hours to several years depending on setup
Insulation resistance with 50 VDC test voltage:	0.01-19.99, 49.9 +/- (2% Reading + 2 digits) 49.9 - 99.9MΩ +/- (5% Reading + 2 digits)
Insulation resistance with 100 VDC test voltage:	0.01-19.99, 99.9 +/- (2% Reading + 2 digits) 99.9 - 199.9MΩ +/- (5% Reading + 2 digits)
Insulation resistance with 250 VDC test voltage:	0.01-19.99, 199.9, 249 +/- (2% Reading + 2 digits) 249 - 499MΩ +/- (5% Reading + 2 digits)
Insulation resistance with 500 VDC test voltage:	0.01-19.99, 199.9, 499 +/- (2% Reading + 2 digits) 499 - 999 MΩ +/- (5% Reading + 2 digits)
Insulation resistance with 1000 VDC test voltage:	0.01-19.99, 199.9, 999 +/- (2% Reading + 2 digits) 999 - 1999 MΩ +/- (5% Reading + 2 digits)
Low resistance (without timer):	0.01-19.99, 99.9Ω +/- (2% Reading + 2 digits)
Low resistance (with timer):	0.01- 9.9Ω +/- (2% Reading + 2 digits)
Ground resistance:	0-19.99, 199.9, 1999 Ω +/- (5% Reading + 3 digits)
Ground resistivity:	0.6- 125.6 Ω m 0.125-1.256, 19.99, 199.9 kΩm +/- (5% Reading + 3 digits)

OPTIONAL ACCESSORIES

Part Number	Description
DM-CT-HTA	1000A Clamp (supplied with the DM-III)
DM-CT-100	Current Transducer
RS-USB	USB to RS-232 Adapter
CC-DM-III	Hard Case

REPLACEMENT PARTS (supplied with product)

Part Number	Description
AM-FLEX33	<i>no description</i>
HW1254A	Soft Carrying Case
DMT-EXTPS	External Power Supply 12VDC
MTL-VOLT	<i>no description</i>
MTL-EARTH	<i>no description</i>
C-2001	<i>no description</i>