

# DM-III Multitest Power Quality Recorders



- 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

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

## OPTIONAL ACCESSORIES

Part Number	Description
AM-FLEX33	<i>no description</i>
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
DM-CT-HTA	1000A Clamp (supplied with the DM-III)
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>