



DM-III & DM-III FLEX Power Quality Recorders



Amprobe's full-featured Three-Phase Power Quality Recorders provide the essential functions and capabilities required to operate accurately and effectively in today's demanding electrical environments.

- True RMS (TRMS)
- Comes as a complete kit, CTs and PC software are included with product
- Works with single and three phase systems (Y and delta)
- Detects & records voltage anomalies (transients), Spikes 130us @ 60Hz or longer, Sags & Surges
- Built in scope displays waveforms
- 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
- Line or battery powered
- Safety: CATIII, 600V Phase to phase, CATIII, 300V Phase to ground, EN 61010-1+A2(1996)



FEATURES	DM-III	DM-III FLEX	BASIC ACCURACY
Supplied Current Transducer	1000A Standard CT, 2" Internal Diameter CT	3000A Flexible 7" internal diameter CT	Input accuracy: +/- (0.5% Rdg + 2 LSD)
AC Current	5 - 1000A (expandable to 3000A with optional flexible CT's)	15 - 3000A (1000A Standard CT's can be used as an option)	
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) @ DC to 25 harmonics**
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		

**For other ranges see website (<http://www.AMPROBE.com>)

OPTIONAL ACCESSORIES	PART NUMBER
1000A Clamp (supplied with the DM-III)	DM-CT-HTA
3000A Flexible CT for recorders marked as the DM-IIIS on a front label (supplied with the DM-III Flex)	FLEX3
3000A Flexible CT for recorders marked as the DM-III on a front label	ACF-3000SR
USB-RS-232 Adapter	RS-USB
Hard Case	CC-DM-III

REPLACEMENT PARTS <i>(supplied with product)</i>	PART NUMBER
1000A Clamp (supplied with the DM-III)	DM-CT-HTA
3000A Flexible CT for recorders marked as the DM-IIIS on a front label (supplied with the DM-III Flex)	FLEX3
Soft Carrying case	HW1254A
External power supply 12VDC	DMT-EXTPS
Test leads and alligator clips (set of 4)	KITENERGY3
Special RS-232 Computer Cable	C232NG1
PC Software	www.AMPROBE.com
Instruction Manual	www.AMPROBE.com

CC-DM-III Hard Case

- Hard case for the DM-III and the DM-III Flex
- Protects instrument while it is recording on the jobsite
- Carrying case for the instrument and the accessories

FLEX3 3000A Flexible Current Transducer

- Accessory for the DM-III and DM-III Flex (*recorders marked as the DM-IIIS on the front label**)
- Current measurement from 15A to 3000A for each of the three phases
- Neutral wire current measurement down to milliamps
- Flexible head fits all small conductors and large bus-bars up to 7" in diameter
- Recommended one Flex3 for single phase system, and three for three phase systems
- Output Sensitivity (AC coupled): 39.1 uV per Amp
- Accuracy: +/- 1.5% of reading (45 – 65 Hz)

**For recorders marked as the DM-III on the front label use the ACF-3000SR flexible CT.*

ACF-3000 SR Flexible Current Transducer

- Accessory for the DM-III (recorders marked as the DM-III on the front label*) and the MT-2000
- Current measurement from 15A to 3000A for each of the three phases
- Neutral wire current measurement down to milliamps for the DM-III
- Flexible head fits all small conductors and large bus-bars up to 7" in diameter
- Recommended one ACF-3000 SR for single phase system, and three for three phase systems
- Output Sensitivity (AC coupled): 0.333 mV per Amp
- Accuracy: +/- 1 % of range
- Safety: CATIII 600V

OPTIONAL ACCESSORIES	PART NUMBER
External Power Supply	ACF-3A

**For recorders marked as the DM-IIIS on the front label use the FLEX3 flexible CT.*



CC-DM-III
(DM-III NOT INCLUDED WITH THE CASE)



ACF-3000 SR

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