

No hassle warranty

NO HASSL

No waiting.

No shipping charges.

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)

DM-III MULTITEST F Power Quality Recorder

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.

- POWER QUALITY ANALYZER/DATA LOGGER
 - True RMS (TRMS)
 - Measures & Records Broad Spectrum of Power Quality Parameters
 - AC Current
 - AC Voltage to 600 V
 - Sags and Surges
 - Harmonics
 - Active, Reactive and Apparent
 - Power
 - Peak Demand
 - Power Factor
 - Frequency
 - Phase Sequence
 - Compatible with wide range of current transducers
 - Works with single and three phase
 - Detects & records Sags and Surges
 - Displacement power factor for power factor correction determination
 - Built in scope displays waveforms
 - Phase sequence indication
 - Records up to 64 parameters
 - Selectable fundamental frequency
 - Special data compression system
 - Download capabilities, Windows compatible
 - A complete kit: 3000A Flexible CT, 1000A Clamp, Voltage Leads, Ground Probes & Leads, PC software & cable

continued on next page ►



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Data Sheet

■ INSULATION TESTER FUNCTIONS:

- Tests insulation integrity of wires, cables, transformers & electrical motors
- Selectable test voltages up to 1000 V
- 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
- GROUND RESISTANCE & RESISTIVITY FUNCTIONS:
 - Three measuring modes:
 - 2 point continuity/resistance test
 - 3 point Fall of Potential test
 - 4 point Earth Resistivity measurement
 - Automatic voltage measurement prevents false measurements
 - Automatically applies three testing frequencies for the most accurate readings
 - Detects faulty test conditions such as poor soil conditions and input noise
- PHASE SEQUENCE
 - Phase sequence indication
 - Frequency measurement
 - Phase-to-Phase voltage measurement



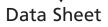




Specifications

1000A or 15 – 3000A
.dg + 2 LSD)
.dg + 2 LSD)
.dg + 2 LSD)
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dg + 2 LSD)
(dg + 2 LSD)
dg + 2 LSD)
8dg + 2 LSD)





Specifications (continued)

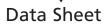
u)			
Range [M Ω]	Resolution [MΩ]	Accuracy	
0.01 – 9.99	0.01	*	
10.0 – 49.9	0.1		
50.0 - 99.9	0.1		
	-		
0.01 – 9.99	0.01	±(2% Reading + 2 digit)	
10.0 – 99.9	0.1		
	0.1		
0.01 – 9.99	0.01	±(2% Reading + 2 digit)	
10.0 – 199.9	0.1	±(2% Reading + 2 digit)	
200 – 249	1		
250 – 499	1	±(5% Reading + 2 digit)	
0.01 – 9.99	0.01	±(2% Reading + 2 digit)	
10.0 – 199.9	0.1	±(2% Reading + 2 digit)	
200 – 499	1	±(2% Reading + 2 digit)	
500 – 999	1	±(5% Reading + 2 digit)	
0.01 – 9.99	0.01	±(2% Reading + 2 digit)	
10.0 – 199.9	0.1	±(2% Reading + 2 digit)	
200 – 999	1	±(2% Reading + 2 digit)	
1000 – 1999	1	±(5% Reading + 2 digit)	
	-		
	· · ·		
	-		
other: >1mA with 1	kΩ*Vnom		
Resolution [Hz]	Δεεμτρεγ		
	,	ii+)	
surement			
	Accuracy		
1	±(3%Reading + 2 dig	it)	
urement With Earth Ro	ds		
Resolution $[\Omega]$			
0.01			
0.1			
1			
±(5% Reading + 3 d	ligit)		
<10mA – 77.5Hz			
<20V RM			
	10.0 - 49.9 50.0 - 99.9 0.01 - 9.99 10.0 - 99.9 10.0 - 199.9 10.0 - 199.9 200 - 249 250 - 499 0.01 - 9.99 10.0 - 199.9 200 - 499 500 - 999 10.0 - 199.9 200 - 499 500 - 999 10.0 - 199.9 200 - 999 10.0 - 199.9 200 - 999 1000 - 1999 <1.3 x Nominal Test <6.0mA with 500V 500V: >2.2mA with other: >1mA with 1 Resolution [Hz] 0.1 re active only for 50Hz ± surement Resolution [V] 1 surement With Earth Rom Resolution [V] 1 surement With Earth Rom Resolution [Q] 0.01 0.1 1 ±(5% Reading + 3 d <10mA - 77.5Hz	Range [MΩ] Resolution [MΩ] $0.01 - 9.99$ 0.01 $10.0 - 49.9$ 0.1 $50.0 - 99.9$ 0.1 $0.01 - 9.99$ 0.01 $10.0 - 99.9$ 0.1 $0.01 - 9.99$ 0.1 $0.01 - 9.99$ 0.1 $0.01 - 9.99$ 0.1 $0.01 - 9.99$ 0.1 $200 - 249$ 1 $250 - 499$ 1 $0.01 - 9.99$ 0.01 $10.0 - 199.9$ 0.1 $200 - 249$ 1 $200 - 499$ 1 $0.01 - 9.99$ 0.1 $200 - 999$ 1 $0.01 - 9.99$ 0.01 $10.0 - 199.9$ 0.1 $200 - 999$ 1 $0.01 - 9.99$ 0.1 $200 - 999$ 1 $1000 - 199.9$ 0.1 $200 - 999$ 1 $1000 - 199.9$ 0.1 $200 - 999$ 1 $0.01 - 10.0 - 199.9$ 0.1 $200 - 99.1$ 0.1 $200 - 90.1$ <td< td=""><td>Range [MΩ] Resolution [MΩ] Accuracy 0.01 = 9.99 0.01 ±(2% Reading + 2 digit) 50.0 = 99.9 0.1 ±(2% Reading + 2 digit) 0.01 = 9.99 0.1 ±(2% Reading + 2 digit) 10.0 = 99.9 0.1 ±(2% Reading + 2 digit) 10.0 = 99.9 0.1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 0.01 = 9.99 0.01 ±(2% Reading + 2 digit) 0.01 = 9.99 0.01 ±(2% Reading + 2 digit) 0.01 = 9.99 0.1 ±(2% Reading + 2 digit) 200 = 249 1 ±(2% Reading + 2 digit) 210 = 249 1 ±(2% Reading + 2 digit) 200 = 499 1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 200 = 499 1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 200 = 999 1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 200 = 999 1 ±(2% Reading</td></td<>	Range [MΩ] Resolution [MΩ] Accuracy 0.01 = 9.99 0.01 ±(2% Reading + 2 digit) 50.0 = 99.9 0.1 ±(2% Reading + 2 digit) 0.01 = 9.99 0.1 ±(2% Reading + 2 digit) 10.0 = 99.9 0.1 ±(2% Reading + 2 digit) 10.0 = 99.9 0.1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 0.01 = 9.99 0.01 ±(2% Reading + 2 digit) 0.01 = 9.99 0.01 ±(2% Reading + 2 digit) 0.01 = 9.99 0.1 ±(2% Reading + 2 digit) 200 = 249 1 ±(2% Reading + 2 digit) 210 = 249 1 ±(2% Reading + 2 digit) 200 = 499 1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 200 = 499 1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 200 = 999 1 ±(2% Reading + 2 digit) 10.0 = 199.9 0.1 ±(2% Reading + 2 digit) 200 = 999 1 ±(2% Reading



Data Sheet

Ground Test: Resistivity Measu	irement			
Range p	Resolution			
0.60 – 19.99 Ωm	0.01 Ωm			
20.0 – 199.9Ωm	0.1Ωm			
200 – 1999Ωm	1 Ωm			
2.00 – 99.99kΩm	0.01 kΩm			
100.0 – 125.6kΩm(*)	0.1 kΩm			
	(*) setting distance = ⁻	10m		
Accuracy	±(5% Reading + 3 digi			
Test Current	<10mA – 77.5Hz			
Open circuit Test Voltage	<20V RMS			
· · ·				
Voltage Measurement – (Autor	-			
Range [V]	Resolution [V]			
15 – 310V	0.2V			
310 – 600V	0.4V			
Accuracy	±(0.5% Reading+2dig	it)		
Voltage Sag And Surge Detect	ion –(Manual Range)			
Range [V]	Resolution (Voltage)			
15 – 310V	0.2V			
30 – 600V	0.4V			
Resolution (Time)	10ms (_ period)			
Accuracy (Voltage)	±(1.0% Reading+2dig	t)		
Accuracy (Rif. 50hz) (Time)	10ms (_ period)			
Input Impedance	300k Ω (Phase-Neutral); 300kΩ (Phase	Phase)	
Current Measurement – STD &	FlexEXTclamps			
Range [V]	Resolution [Mv]			
0.005 – 0.26V	0.1			
0.26 – 1V	0.4			
(*): Example: with a 1000A/1	/ full scale clamp, the inst	rument detect o	nly current higher than 5A	
Accuracy	±(0.5% Reading+2dig	it)		
Input Impedance	200kΩ			
Overload Protection	5V			
Current Measurement – FlexIN	T clamp – 1000A Range			
Current Range	Input Voltage Range	Resolution	Accuracy	
5.00 – 20.00A	425µV – 1.7mV	0.850µV	± (4.0%rdg + 8.5µV)	
20.00 – 99.99A	1.7mV – 8.499mV	0.850µV	± (1.0% rdg + 8.5µV)	
100.0 – 999.9A	8.5mV – 84.99mV	8.5µV	± (1.0% rdg + 85µV)	
Input Impedance	9.166kΩ		_ (, ,,,,,,	
Overload Protection	5V			





Specifications (continued)		
Current Measurement – FlexIN			
Current Range	Input Voltage Range	Resolution	Accuracy
15.00 – 99.99A	1.27mV – 8.499mV	0.850µV	± (1.0% rdg + 8.5µV)
100.0 – 270.0A	8.5mV – 22.75mV	8.5µV	± (1.0% rdg + 42.5uV
270.0 – 999.9A	22.75mV – 84.99mV	8.5µV	± (1.0% rdg + 85uV)
1.00 – 3.00kA	85mV – 255mV	850µV	± (0.5% rdg + 8.5mV)
Input Impedance	9.7kΩ		
Overload Protection	5V		
Power Measurement – (Autora	nge)		
Quantity	Range	Resolution	
Active Power	0 – 999.9W	0.1W	
	1 – 999.9kW	0.1kW	
	1 – 999.9MW	0.1MW	
	1000 – 9999MW	1MW	
Reactive Power	0 – 999.9VAR	0.1VAR	
	1 – 999.9kVAR	0.1kVAR	
	1 – 999.9MVAR	0.1MVAR	
	1000 – 9999MVAR	1MVAR	
Apparent Power	0 – 999.9VA,	0.1VA	
	1 – 999.9kVA,	0.1kVA	
	1 – 999.9MVA	0.1MVA	
	1000 – 9999MVA	1MVA 0.1Wh	
Active Energy (Classe2 EN6103	1 – 999.9kWh,	0.1kWh	
	1 – 999.9MWh	0.1MWh	
	1000 – 9999MWh	1MWh	
Reactive Energy (Classe3 IEC1		0.1VARh	
	1 – 999.9kVARh,	0.1kVARh	
	1 – 999.9MVARh	0.1MVARh	
	1000 – 9999MVARh	1MVARh	
Accuracy	±(1.0%Reading+2digit	t)	
Cos j Measurement			
Cos J	Accuracy [°]		
1.00 – 0.80	0.6		
0.80 - 0.50	0.7		
0.50 – 0.20	1.0		
Resolution	0.01		
Voltage and Current Harmonic	s Measurement		
Range	Accuracy		
DC – 25H	±(5% + 2 digit)		
26H – 33H	±(10% + 2 digit)		
34H – 49H	±(15% + 2 digit)		
Resolution	0.1V/0.1A		

Harmonics values are null under fixed threshold:

- DC: its values is null if it is < 2% of Fundamental or is <2% of Full Scale clamp

- 1st Current Harmonic: its values is null if it is < 0.2% Full Scale clamp

- 2nd – 49th: its values is null if it is < 0.5% of fundamental or is < 0.1% of Full Scale clamp



Data Sheet

Technical Data – General Information

Technical Data – Gene	
General	
Safety	EN 61010-1 + A2 (1997)
Protection Classification	Class 2 - Double Insulation
Pollution Degree	2
Degree of Protection	IP50
Over-Voltage Category	CAT II 600V~ / 350V~ (phase –earth); CAT III 600V~ / 300V~ (phase –earth)
Usage	Indoor; max height 2000m
ЕМС	EN61326-1 (1997) + A1 (1998) The Instrument complies with European Guidelines for CE mark
Safety Test	
Low½ (200mA)	IEC 61557-4
Insulation Test	IEC 61557-2
Phase Sequence	IEC 61557-7
Ground Test	IEC 61557-5
Power Quality	
Voltage Sag and Surge	EN50160
Alternating Current Static Wat	tt-hour meters for Active Energy EN61036 (CLASS 2)
Alternating Current Static VAR	R-hour Meters for Reactive Energy IEC1268 (CLASS 3)
General Specifications	
Mechanical Data	
Dimensions	225 (L)x165 (W) x 105 (H)mm
Weight	1,2Kg approx
Power Supply	6 x 1.5-LR6-AA-AM3-MN 1500 batteries
Battery Life	
Low ¹ ⁄ ₂	~ 800 test
Insulation Test	~ 500 test
Ground Test	~ 1000 test
Phase Sequence	~ 1000 test
Power Quality (recording)	~20 hours
External Power Supply Adapte	er Code DMT-EXTPS (only for POWER QUALITY function)
Display	
Display Type	Graphic with Backlight
Resolution	128x128
Visible Area	73mmx73mm
Memory	
Safety Test Memory	999 measurement
Power Quality	2MByte (with 63 channels select and Integration Period = 15min -> more than 30 days).
Environment	
Reference Temperature	
	23° ± 5°C
Working Temperature Range	23° ± 5°C 0° – 40°C
Working Temperature Range Working Humidity	
	0° – 40°C



Data Sheet



Includes Amprobe's Download Suite Software

Replacement Parts (supplied with product)

AM-FLEX33	3000A Flexible CT
DM-CT-HTA	1000AClamp
HW1254A	Soft Carrying case
DMT-EXTPS	External power supply 12VDC
MTL-VOLT	Complete set of voltage and megohmmeter test leads and alligator clips
MTL-EARTH	Carrying case containing: 4 earth rods and 4 test leads (banana – alligator clip)
C-2001	Special RS-232 Computer Cable
www.amprobe.com	PC Software
www.amprobe.com	Instruction Manual

Optional Accessories

DM-CT-HTA	1000A Clamp
DM-CT-100	100A Compact Clamp (0.5Ato 100A)
RS-USB	USB-RS-232 Adapter
CC-DM-III	Hard Case

Amprobe® Test Tools

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