

**AMPROBE®**

CE

*DMII™ PRO*  
*Data Logger Recorder*

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# MODEL DM-II™

## Data Logger/Recorder

### Specifications

#### Inputs:

**Voltage:** Three voltage channels with common (V1, V2, V3, and COM). The test leads are flexible straight sheathed banana plugs on each end, rated for 1000Vrms and a length of 6 Ft. (set of four supplied). The alligator clips have a 1 in. jaw opening and are rated at 10A max. (set of four supplied).

**Current:** Four channels (I1, I2, I3, I4)  
DM-CT: 1 to 1000A ±1% of reading (four supplied)  
ACF-3000:

30A to 300A ±1% of full scale

300A to 3000A ±1% of full scale

Note: The ACF-3000 is an optional accessory. A total of three would be required for a 3Ø measurement.

#### Ranges:

AC Voltage measurements (True RMS) 5 to 600 Vrms

AC Current measurements (True RMS) 1 to 1000 Arms with four supplied DM-CTs

#### Accuracy:

Voltage measurements ±1% of reading + 3 LSDs

Current measurements ±1% of reading + 3 LSDs

#### Voltage and Current measurement selections:

True RMS voltage and current, RMS max, RMS min, RMS avg, Peak max

#### Power measurement capabilities:

Real power P (watts), Apparent Volt-amperes S (VA),

Reactive Volt-amperes Q (VAR), True Power Factor (tPF),

#### Energy measurement capabilities:

Kilowatt Hours (KWH), Demand (KW)

#### Programmable Thresholds:

User selectable high/low limits for RMS voltage and current

#### Recording Modes/Rates/Intervals:

User selectable normal and loop (wrap around) recording modes, user selectable recording rates of 1 second, 5 seconds, 15 seconds, 30 seconds, 1 minute, 5 minutes, 15 minutes, and 30 minutes. User selectable recording intervals of none, 15 minutes, and 30 minutes.

## MODEL DM-II™ PRO Data Logger/Recorder (cont'd)

### Memory:

Total of 600K RAM memory. The recording session length depends on the recording rate, the number of parameters selected for recording, recording mode, and recording interval. The memory has a lithium backup battery to preserve its contents in event of the absence of AC power and batteries.

### Real Time Clock:

User programmable real time clock, displayed in 12/24 hour format and HH:MM:SS Day Month Date Year, daylight savings option, accuracy of ±1 minute per month.

### System Configuration:

Total of four prestored setup phase configurations for 1Ø and 1Ø systems: 1Ø 2W, 1Ø 3W, 3Ø 3W Straight Delta, and 3Ø 4W Wye.

Note: Any or all parameters of a phase configuration can be recorded.

### PC Interface:

Optically isolated RS-232 serial interface. DM-II View™ PRO software for display, data analysis, and report generation. User selectable baud rates of 9600, 19200, and 38400 baud.

### Power Requirements:

AC line voltage with battery backup operation. The ON/OFF dual color LED indicates the unit's power source: green indicates AC line power, red indicates battery power.

### Safety Standards:

Designed to meet: UL3111-1, CE (LVD/EMC/EMI)

### Case:

Material: Injection molded flame retardant ABS911, rugged, water-resistant, and corrosion proof.

Case dimensions: 17.5" x 11.6" x 7.5"

Weight: 16 lbs. (7.3 kgs.) includes batteries, 4 CTs, voltage leads and alligator clips.

Important - Be sure that the pressure relieve valve located next to the handle is open when encountering atmospheric changes.

### Battery:

Six alkaline "D" cells (not supplied)

### Battery Life:

21 hours continuous with backlight OFF, 1 second recording rate, normal recording mode, all parameters elected for a 3Ø 4W Wye configuration.

### Operating Temperature Range:

32° - 122°F (0°F - 50°C), Relative humidity <85%

### Storage Temperature Range:

28° - 140°F (-2°F - 60°C), Relative humidity <90%

## **User Interface**

**Graphic Display:**

User adjustable contrast, LED backlight, 160 x 160 pixel, STN

**Switch Keypad:**

15 key membrane switch keypad, shielding protection, embedded dual color red/green LED indicating power from line voltage or from batteries.

**System Requirements for DM-II View™ PRO**

Windows™ 95/98/NT/2000

Pentium Processor or higher

8 MB RAM minimum, 16 MB recommended

### **ACCESSORIES & REPLACEMENTS**

Test Leads & Alligator Clips (set of four)	DVL-4
Current Transducer (Black)	DM-CT-BL-CE
Current Transducer (Red)	DM-CT-R-CE
Current Transducer (Blue)	DM-CT-B-CE
Current Transducer (Yellow)	DM-CT-Y-CE
Output Lead	RS-232
Power Cord	PC-4
DM-II View™ PRO 3.5" Discs (set of 2)	DISC-II
Flexible Current Transducer (3000 Amps)	ACF-3000 DM
DM-II™ PRO Instruction Manual	
DM-II View™ PRO Instruction Manual	