



THE DATASHEET OF
DM-860A





GREENLEE®

A Textron Company

DM-860A

Industrial
Digital
Multimeter



More Safety. More Performance. More Versatility.

Safety, performance and versatility set Greenlee's series of Enhanced Smart Meter™ (ESM™) Digital Multimeters apart from the rest. The DM-860A is a full featured Industrial Digital Multimeter and the latest addition to the family.

Safety – The highest level of safety protection with a UL Category IV, 1000V rating. The Beep-Jack™ visual and audible warning system helps prevent improper test lead connections and avoids blown fuses and damage to the meter.

Performance – Provides the user with superior accuracy and functionality. The 50,000 count display with AC+DC True RMS and VFD (Variable Frequency Drive) voltage and frequency functions

allow for accurate readings on noisy waveforms. Autoranging for convenient operation and time savings.

Versatility – Rugged, multifunction capability to meet today's demanding jobs. The relative offset display mode makes monitoring relative measurement changes simple. The USB interface using the optional DMSC-9U cable and software allows for connection to a PC for extended measurement capability.

Dollar for dollar the Greenlee DM-860A Digital Multimeter provides the features, functions, and overall value demanded by today's professionals.

Features

- AC+DC True RMS, 50,000-count dual display for greater accuracy. 500,000 count available in DC voltage mode.
- VFD (variable frequency drive) voltage and frequency functions for accurate readings on noisy drive waveforms.
- Beep-Jack™ audible and visual input alert helps avoid blown fuses or damage to meter.
- 41-segment analog bar graph makes it easy to view quick changes.
- Record max, min, avg, and max-min and data hold.
- Crest capture (peak hold) max and min readings.
- Relative offset display mode makes monitoring relative measurement changes simple.
- Performs resistance, conductance, frequency, duty cycle, temperature and capacitance measurements, plus diode and continuity tests.
- Dual temperature measurement up to 1832°F/1000°C using type K thermocouples.
- Autoranging for convenient operation and time savings.
- Bright, backlit display is easy to read under any light condition.
- Intelligent Auto Power Off conserves battery life but will not turn meter off during measurements.
- Wide AC bandwidth – to 100 kHz for voltage and 20 kHz for current.
- USB interface using optional DMSC-9U cable and software allows connection to a PC for extended measurement capability.
- Accessories included: (1) 9V battery, bead temperature probe (400°F/ 204°C max.), test leads, protective boot, carrying case.
- Lifetime Limited Warranty.

Specifications

Voltage Measurement	500.00mV; 5.0000, 50.000, 500.00, 1000.0V
DC Voltage Measurement	500,000 counts mode: 500.000mV; 5.00000, 50.0000, 500.000, 1000.00V
Amperage Measurement	500.00, 5000.0µA; 50.000, 500.00mA; 5.0000, 10.000A
Resistance	500.00Ω; 5.0000, 50.000, 500.00kΩ; 5.0000, 50.000MΩ
Conductance	99.99 nS
Capacitance	50.00; 500.0nF; 5.000, 50.00, 500.0µF; 5.000, 25.00 mF
Frequency	5Hz-200kHz sine wave; 5Hz-2MHz logic level square wave
Temperature	K type, -58°F to 1832°F (-50°C to 1000°C)
Measurement Category	CAT IV, 1000V

Ordering Information

■ = NEW PRODUCT **R** = REPLACEMENT PART **A** = ACCESSORY

CAT NO.	UPC NO.	DESCRIPTION	QTY.
DM-860A	12938	Industrial 500,000-Count Digital Multimeter	1
DM-860A-C	02069	Industrial 500,000-Count Digital Multimeter (Calibrated)	1
TC-20	07535 R	Carrying Case (included)	1
TSG-3	12034 R	Sure-Grip Test Leads	1
TPB	07592 R	Bead Temperature Probe	1
DMSC-9U	35773 A	For DM-800A Series and DML-430A Multimeters	1

DISTRIBUTOR INFORMATION:

DM-860A DETAILED FEATURES	
True RMS	AC+DC
VFD (variable frequency drive) Volts & Frequency	◆
DCA (A max)	10
Maximum resolution (µA)	0.01
Best accuracy (%)	0.1
ACA (A max)	10
Maximum resolution (µA)	0.01
Best accuracy (%)	0.5
DCV (V max)	1000
Maximum Resolution (µV)	1
Best accuracy (%)	0.02
ACV (V max)	1000
Maximum resolution (µV)	10
Best accuracy (%)	0.3
Resistance (MΩ)	50
Maximum resolution (mΩ)	10
Best accuracy (%)	0.07
Conductance	◆
Continuity and beeper	•
Diode Test	•
Capacitance	•
Frequency	•
Duty Cycle	•
Frequency Response (Hz)	20~100k
Temperature Inputs	2
Display Type	Digital
Dual Digital Display	◆
Display Counts	50,000 / 500,000
Backlight	•
Display update X/sec	5
Analog bar graph	41
Analog update X/sec	60
Computer Interface	USB ◆
Auto and manual ranging	•
Intelligent Auto Power Off	•
Beep-Jack™ Input error warning	•
Peak (crest) Hold - Max, Min	•
Data Hold	•
Max/Min/Avg	◆
Relative offset mode (Δ)	•
Process measurement (%4-20 mA)	•
Measurement Category Rating	IV 1000 ◆
UL	•
cUL or CSA	•
CE	•

◆ Improved features over previous DM-860



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