

True RMS Digital Multimeter Series

DMM-8300B

DMM-8301A



EASE TO USE, RELIABILITY AND ACCURACY

Commercial Electric DMM-8300B and DMM-8301A multimeter is with rugged and robust housing for durable use. It is also with strong meter stand, allows you free your hand and convenient to read the measuring data during measurement. It is your ideal meter on trouble shooting for everyday use.

ACCURACY WITH TRUE RMS TECHNOLOGY

Provides accurate voltage and current data when measuring complex AC signals.

CONVENIENT TEMPERATURE MEASUREMENTS AT YOUR FINGERTIPS (DMM-8301A ONLY)

Built-in temperature measurement function conveniently allows you to take temperature measuring without carrying separate instruments.

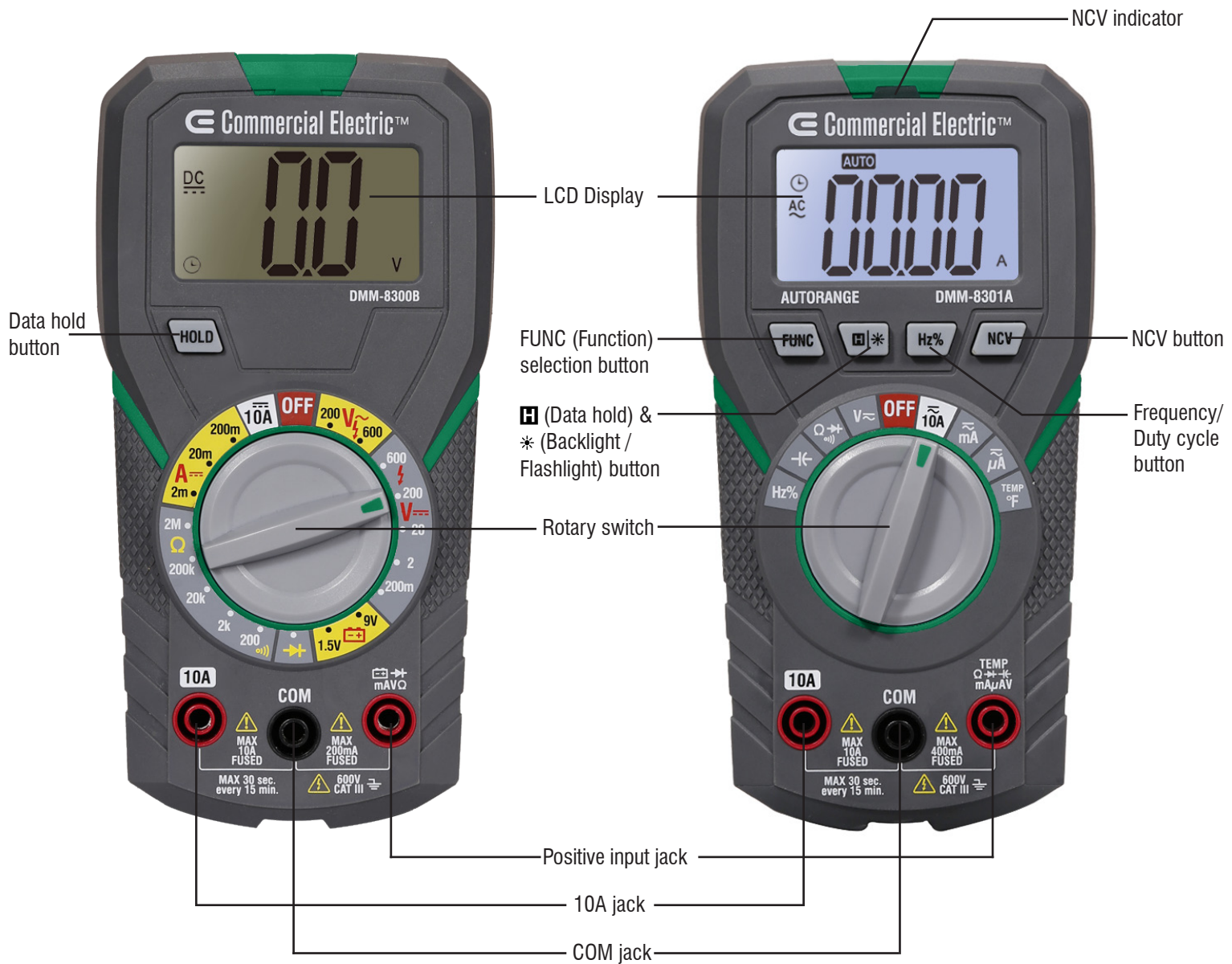
Commercial Electric™

Your ideal trouble-shooting tools in daily use.

The Commercial Electric Manual-ranging Multimeter DMM-8300B and Auto-ranging Multimeter DMM-8301A are True RMS Multimeter made to perfectly troubleshoot and repair electrical and electronic systems, combined with its reliability and accuracy. All Commercial Electric multimeter are with True RMS technology. It is designed for providing accurate AC voltage and current readings in complex electrical environment which is full of non-sinusoidal signals harmonics and variable speed drives. With True RMS technology, the Commercial Electric multimeter provides reliable measurements over and over again.



Product Layout





DMM-8300B

DMM-8301A

PRODUCT SPECIFICATIONS

DMM-8300B

Function	Measuring Range	Resolution	Accuracy
DC VOLTAGE SPECIFICATIONS	200.0mV	0.1mV	±(0.5% of rdg + 5 digits)
	2.000V	1mV	
	20.00V	0.01V	
	200.0V	0.1V	
	600V	1V	±(0.8% of rdg + 5 digits)
	Overload Protection: 200mV range: 250V DC Maximum Input Range: 600V DC		
AC VOLTAGE SPECIFICATIONS	200.0V	0.1V	±(1.0% of rdg + 10 digits)
	600V	1V	±(1.2% of rdg + 10 digits)
	Overload Protection: 600V RMS AC Frequency Range: 40 - 400Hz (sine), 50/60Hz (all wave); All AC voltage ranges are specified from 5% of range to 100% of range.		
DC CURRENT SPECIFICATIONS	2.000mA	1μA	±(1.0% of rdg + 3 digits)
	20.00mA	10μA	±(1.0% of rdg + 5 digits)
	200.0mA	100μA	±(1.5% of rdg + 5 digits)
	10A	10mA	±(3.0% of rdg + 10 digits)
	Overload Protection: F: 10A/ 600V, F: 200mA/ 600V. Maximum Input: μA/mA setting: 200mA DC 10A setting: 10A DC (30 sec max with reduced accuracy). For measurements greater than 2A, the continuous time cannot be more than 2 minutes. Disconnect the current and wait 10 minutes before making another measurement.		
	RESISTANCE SPECIFICATIONS	200.0Ω	0.1Ω
2.000kΩ		1Ω	±(0.8% of rdg + 2 digits)
20.00kΩ		0.01kΩ	
200.0kΩ		0.1kΩ	
2MΩ		0.01MΩ	±(1.0% of rdg + 5 digits)
Overload Protection: 250V DC or 250V RMS AC			
BATTERY VOLTAGE SPECIFICATIONS	1.5V	0.001V	100Ω
	9V	0.01V	450Ω
DIODE AND CIRCUIT ON - OFF SPECIFICATIONS	Overload Protection: F: 200mA/ 600V		
		Displays the approximate diode positive voltage.	
		When the on-resistance is smaller than (50±30)Ω, the built-in buzzer sounds.	
	□ Overload Protection: 250V DC or 250V RMS AC		

DMM-8301A

Function	Measuring Range	Resolution	Accuracy
DC VOLTAGE SPECIFICATIONS	400.0mV	0.1mV	±(0.5% of rdg + 5 digits)
	4.000V	0.001V	
	40.00V	0.01V	
	400.0V	0.1 V	
	600V	1V	±(0.8% of rdg + 3 digits)
	Input Impedance: 10MΩ Frequency: 50 to 60Hz Maximum Input Voltage: 600V DC		
AC VOLTAGE SPECIFICATIONS	4.000V	0.001V	±(0.8% of rdg + 5 digits)
	40.00V	0.01V	
	400.0V	0.1V	
	600V	1V	±(1.0% of rdg + 5 digits)
	Input Impedance: 10MΩ Frequency Range: 40 - 400Hz (sine), 50/ 60Hz (all wave). All AC voltage ranges are specified from 5% of range to 100% of range. Maximum Input Voltage: 600V AC RMS		

INCLUDES

- Meter
- Test Leads
- 2 x AAA 1.5V Batteries
- K-Type Temperature Probe (DMM-8301A only)
- Velcro Strap
- User Manual

WARRANTY

12-month



Questions, problems, missing parts? Before returning to the store, call Commercial Electric Customer Service


8 a.m. - 7 p.m., EST, Monday - Friday, 9 a.m. - 6 p.m., EST, Saturday
1-877-527-0313

HOMEDEPOT.COM

Specifications subject to change without notice.

Commercial Electric™

DMM-8301A

Function	Measuring Range	Resolution	Accuracy
DC CURRENT SPECIFICATIONS	400.0μA	0.1μA	±(1.0% of rdg + 5 digits)
	4000μA	1μA	
	40.00mA	0.01mA	
	400.0mA	0.1mA	
	4.000A	0.001A	±(2.0% of rdg + 10 digits)
	10.00A	0.01A	
	Overload Protection: F: 10A/ 600V, F: 400mA/ 600V. Maximum Input: μA/mA setting: 400mA DC DC (30 sec. max with reduced accuracy) When measured current is greater than 2A, the continuous measurement time cannot be more than 2 minutes. Disconnect the current and wait 10 minutes before you take another measurement.		
AC CURRENT SPECIFICATIONS	400.0μA	0.1μA	±(1.2% of rdg + 5 digits)
	4000μA	1μA	
	40.00mA	0.01mA	
	400.0mA	0.1mA	
	4.000A	0.001A	±(2.5% of rdg + 10 digits)
	10.00A	0.01A	
	Overload Protection: F: 10A / 600V, F: 400mA / 600V Frequency Range: 40 - 400Hz (sine), 50/ 60Hz (all wave). All AC current ranges are specified from 5% of range to 100% of range. Maximum Input: μA/mA setting: 400mA AC RMS 10A setting: 10A AC RMS (30 sec max with reduced accuracy) For measurements greater than 2A, the continuous measurement time cannot be more than 2 minutes. Disconnect the current and wait 10 minutes before making another measurement.		
RESISTANCE SPECIFICATIONS	400.0Ω	0.1Ω	±(0.8% of rdg + 5 digits)
	4.000kΩ	0.001kΩ	
	40.00kΩ	0.01kΩ	
	400.0kΩ	0.1kΩ	
	4.000MΩ	0.001MΩ	
	40.00MΩ	0.01MΩ	
	Overload Protection: 250V AC RMS or 250V DC		
CAPACITANCE SPECIFICATIONS	50.00nF	0.01nF	±(5.0% of rdg + 20 digits)
	500.0nF	0.1nF	±(3.0% of rdg + 5 digits)
	5.000μF	0.001μF	
	50.00μF	0.01μF	
	500.0μF	0.1μF	
	5.000mF	0.001mF	
	Overload Protection: 250V AC RMS or 250V DC		
FREQUENCY SPECIFICATIONS - THROUGH GRADE HZ/DUTY CYCLE	9.999Hz	0.001Hz	±(1.0% of rdg + 5 digits)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	9.999kHz	0.001kHz	
	99.99kHz	0.01kHz	
	999.9kHz	0.1kHz	
	9.999MHz	0.001MHz	
	10.00MHz	0.01MHz	
	Overload Protection: 250V AC RMS or 250V DC Input Voltage Range: ≥3V AC RMS (Input voltage increases when the frequency to be measured increases)		
FREQUENCY SPECIFICATIONS - THROUGH GRADE V OR A	99.99Hz	0.01Hz	±(1.5% of rdg + 5 digits)
	999.9Hz	0.1Hz	
	9.999kHz	0.001kHz	
	10.00kHz	0.01kHz	
	Measuring Scope: 40Hz - 10kHz ACA Range (≥6% Range), 4000μA/ 400.0mA Range (≥6% Range), 400.0μA/ 40.00mA/ 4.000A/ 10.00A Range (≥60% Range). Input Impedance: 10MΩ Maximum Input Voltage: 600V AC RMS.		
DIODE SPECIFICATIONS	3.2V	0.001V	Display forward voltage drop of diode
	Overload Protection: 250V AC RMS or 250V DC		
DUTY CYCLE SPECIFICATIONS	0.1% - 99.9%	0.1%	±3.0%
	THROUGH GRADE HZ/DUTY: Frequency Response: 1 - 100.0kHz Input Voltage Range: ≥ 3V AC RMS (Input voltage increases when the frequency to be measured increases) Maximum Input Voltage: 250V AC RMS THROUGH GRADE V OR A: Frequency Response: 40 - 10kHz ACA Range (≥6% Range), 4000μA/ 400.0mA Range (≥6% Range), 400.0μA/ 40.00mA/ 4.000A/ 10.00A Range (≥60% Range).		
DIODE SPECIFICATIONS	3.2V	0.001V	Display forward voltage drop of diode
	Overload Protection: 250V AC RMS or 250V DC		
TEMPERATURE SPECIFICATIONS	-4°F - 1832°F	1°F	±(3.0% of rdg + 9 digits)
	Overload Protection: 250V DC or 250 V AC RMS		
AUDIBLE CONTINUITY SPECIFICATIONS		When the on-resistance is smaller than (50±30)Ω, the built-in buzzer sounds. The open circuit voltage is approximately 1V.	
	Overload Protection: 250V AC RMS or 250V DC		

Modification of this document is not permitted without written permission from the Home Depot, LLC.

ADJUSTABLE NON-CONTACT VOLTAGE TESTER

NCV-8908



Perfect pocket-size checking tools in daily use.

The Commercial Electric NCV-8908 adjustable non-contact voltage tester is a easy-to-use tester made to meet the needs in daily easy voltage checking. Its compact design allows NCV-8908 to be easily carried in any place. IP 67 dust and water proof design allows you to use it in a more complex environment.

Features

- Dual Ranges AC Voltage Detection
- Self-Test Feature
- Bright Flashlight
- Audible and Silent Mode
- IP67 Dust and Water Proof

PRODUCT SPECIFICATIONS

Content	Specifications
Voltage range	12V to 1000V AC, 100V to 1000V AC, 50/60Hz
Operating altitude	< 6560 ft. (2000 m), indoor use only
Operating environment	32°F to 122°F (0°C to 50°C), < 80% relative humidity, indoor use only.
Storage environment	14°F to 140°F (-10°C to 60°C), < 80% relative humidity, battery removed.
Pollute degree	2
Safety rating	CAT IV 1000V, Class 2, double insulation.
Dimension	5.95 X 1.02 X 1.17 in. (151 X 26 X 29.6 mm)
Weight	Approx. 2.2 oz (63.1g), batteries included.

NON-CONTACT VOLTAGE DETECTION

Non-contact voltage detection provides safer way to detect voltage. With the bright flashlight, easy-to read LEDs, it provides a convenient way to detect the voltage in dim environment.

INCLUDES

- Tester
- User Manual
- 2 x AAA 1.5V Batteries

WARRANTY

12-month



CAT IV
1000V

Questions, problems, missing parts? Before returning to the store,
call Commercial Electric Customer Service
8 a.m. - 7 p.m., EST, Monday - Friday, 9 a.m. - 6 p.m., EST, Saturday
1-877-527-0313
HOMEDEPOT.COM
Specifications subject to change without notice.



OUTLET TESTER

OT-112

OTG-102



SIMPLE OPERATION

Easy plug into outlet; With the bright, easy-to read LEDs, quickly identify 6 most common wiring problems in both standard and GFCI outlets.

GFCI TEST (OTG-102)

With an integrated GFCI test, easily verify whether GFCI equipped outlets are functioning properly.

TEST FUNCTIONS

- Open ground
- Open neutral
- Open hot
- Hot/Neutral reversed
- Hot/Ground reversed
- Correct Wiring
- GFCI Test (OTG-102)

INCLUDES

- Tester
- User Manual

WARRANTY

12-month



Questions, problems, missing parts? Before returning to the store,
call Commercial Electric Customer Service

8 a.m. - 7 p.m., EST, Monday - Friday, 9 a.m. - 6 p.m., EST, Saturday

1-877-527-0313

HOMEDEPOT.COM

Specifications subject to change without notice.

Commercial Electric™

Your ideal outlet checking tools in daily use.

The Commercial Electric OT-112 outlet tester and OTG-102 outlet tester with GFCI is a pocket-size, easy-to-use tester made to meet the needs in outlet checking. It is the ideal troubleshooting tool to checks each wire in the 3-wire standard outlet whether it is in properly connected to the building's electrical system. With the bright LEDs and refered chart on the front of the tester, it is able to quickly identify 6 most common wiring errors of an outlet, including reversed phase and neutral wires and an open ground. The OT-112 and OTG-102 provides you reliable outlet detection over and over again.

One-Button GFCI test helps you work easily (OTG-102)

The GFCI test button on both socket testers allows to test the operation of GFCI outlets. With one simple button push, the OTG-102 can quickly verify the operating status of GFCI equipped outlet. If the GFCI trip, it means that GFCI is normal. If not, it's time to consult qualified electrician.

PRODUCT SPECIFICATIONS

Content	OT-112	OTG-102
GFCI Test	No	Yes
AC voltage range	125V AC, 50/60 Hz	
Operating altitude	< 6560 ft. (2000 m), indoor use only	
Operating environment	32°F to 104°F (0°C to 40°C), < 80% relative humidity	
Storage environment	14°F to 122°F (-10°C to 50°C), < 80% relative humidity	
Pollute degree	2	
Overload voltage	CAT II 125V	
Dimension	3.36 X 1.76 X 1.13 in (85.2 X 44.8 X 28.8 mm)	3.36 X 1.76 X 1.30 in. (85.2 X 44.8 X 32.9 mm)
Weight	Approx. 1.49 oz (42.1 g)	Approx. 1.52 oz (43.1 g)



Modification of this document is not permitted without written permission from the Home Depot, LLC.