

AVO®215 CAT III TRMS multimeter



- 4000 count display
- AC / DC Voltage to 600 V
- AC / DC Current to 10 A
- True RMS
- Resistance, capacitance, frequency ranges
- Duty cycle
- Auto ranging
- Auto power off
- Data hold
- Max/Min
- Built in flashlight
- Rear tilt stand
- CAT III 600 V Rating

DESCRIPTION

The AVO®215 is a pocket sized multimeter that offers a wide range of functions in a small, rugged package. The 4000 count high contrast negative display, combined with a back light, provides the user easy to read results in all lighting conditions.

The size of the case and position of the function switch and buttons means the instrument sits comfortably in the palm for single handed use.

RANGES AND FEATURES

The instrument is capable of measuring AC/DC voltages up to 600 V and AC/DC currents up to 10 A (20 A possible for 30 seconds maximum). All AC function measurements are True RMS.

Resistance ranges allow measurements from 0 to 40 MΩ with capacitance measurements from 0 to 4000 μF.

In addition, frequency measurements between 10 Hz and 10 kHz are also possible.

The duty cycle function allows the ratio of time that a circuit is energised compared to the time the circuit is de-energised to be displayed, expressed as a percentage of circuit on time.

Example: A 75% duty cycle is a signal that is on 75% of the time and off 25% of the time.

Ideal for pulse wave/trains or pulse width mode (PWM) evaluation.

Functions are auto-ranging when first selected. The range button on the meter allows manual range selection across all functions; a feature that is generally welcomed by many users.

The instrument has a MAX MIN function that let's the user switch between maximum and minimum measurements, meaning the user does not have to be continually monitoring the display to capture any momentary increase or fall in readings.

The hold feature ensures a displayed result can be frozen on the display.

The continuity range features a buzzer and provides the user an audio indication for identifying and confirming continuity between two points. The diode test provides forward and reverse bias testing of diode and semiconductor junctions.

For convenience the AVO®215 also features a built in flashlight for when working in dark areas and is supplied with a DMM lead set and a protective carry pouch.

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SPECIFICATIONS

DC Voltage

Range	Resolution	Accuracy
400 mV	0.1 mV	+/- (1.0 % reading + 5 digits)
4 V	0.001 V	
40 V	0.01 V	
400 V	0.1 V	
600 V	1 V	

AC Voltage

Range	Resolution	Accuracy
4 V	0.001 V	50 Hz to 60 Hz +/- (1.2 % reading + 3 digits)
40 V	0.01 V	
400 V	0.1 V	
600 V	1 V	
600 V	1 V	

All AC voltage ranges are specified from 5 % of range to 100 % of range

DC Current

Range	Resolution	Accuracy
400 µA	0.1 µA	+/- (1.0 % reading + 3 digits)
4000 µA	1 µA	
40 mA	0.01 mA	
400 mA	0.1 mA	
4 A	0.001 A	
10 A	0.01 A	+/- (1.2 % reading + 3 digits)

(20 A: 30 seconds maximum with reduced accuracy)

AC Current

Range	Resolution	Accuracy
400 µA	0.1 µA	+/- (1.2 % reading + 3 digits)
4000 µA	1 µA	
40 mA	0.01 mA	
400 mA	0.1 mA	
4 A	0.001 mA	+/- (1.8 % reading + 5 digits)
10 A	0.01 A	

(20 A: 30 seconds maximum with reduced accuracy)

All AC current ranges are specified from 5 % of range to 100 % of range

Note: Accuracy is stated at 18 °C to 28 °C (65 °F to 83 °F) and less than 75 % RH.

Resistance

Range	Resolution	Accuracy
400 Ω	0.1 Ω	+/- (1.5 % reading + 5 digits)
4 kΩ	0.001 kΩ	
40 kΩ	0.01 kΩ	
400 kΩ	0.1 kΩ	
4 MΩ	0.001 MΩ	+/- (2.5 % reading + 20 digits)
40 MΩ	0.01 MΩ	

Capacitance

Range	Resolution	Accuracy
40 nF	0.01 nF	+/- (4.5 % reading + 10 digits)
400 nF	0.1 nF	
4 µF	0,001 µF	+/- (3.0 % reading + 5 digits)
40 µF	0.01 µF	
400 µF	0.1 µF	
4000 µF	1 µF	+/- (5 % reading + 5 digits)

Frequency

Range	Resolution	Accuracy
10 Hz – 10 kHz	0.01 Hz	+/- (1.2 % reading)

Sensitivity: 15 V rms

Duty Cycle

Range	Resolution	Accuracy
0.1 to 99.9 %	0.1 %	+/- (1.2 % reading + 2 digits)

Pulse width: 100 µs – 100 ms, Frequency: 5 Hz to 150 kHz

Note: Accuracy specifications consist of two elements.
(% reading) = accuracy of the measurement circuit
(+ digits) = accuracy of analog to digital converter

AVO[®]215

CAT III TRMS multimeter

Drop test:	2 metres (6.5 feet)	Operating Temperature:	5 °C to 40 °C (41 °F to 104 °F)
Diode Test:	Test current of 1.5 mA maximum, open circuit voltage 3 V DC typical	Storage Temperature:	-20 °C to 60 °C (-4 °F to 140 °F)
Continuity Check:	Audible signal will sound if the resistance is less than 50 Ω (approx.), test current <0.35 mA	Operating Humidity:	Max 80 % up to 31 °C (87 °F) decreasing linearly to 50 % at 40 °C (104 °F)
Input Impedance:	>10 MΩ VDC / VAC	Storage Humidity:	<80 %
AC Response:	TRMS	Operating Altitude:	≤ 2000 metres (7000 feet) maximum
ACV Bandwidth:	50/60 Hz (All waveforms) 45 Hz to 1000 Hz (Sine wave)	Weight:	342 g (0.753 lb)
Crest Factor:	Less than or equal to 3 at full scale up to 300 V, decreasing linearly to less than or equal to 1.5 at 600 V.	Size:	182 x 82 x 59 mm
Display:	4000 counts / positive display	IEC:	IEC61010
Overrange Indication:	'OL' is displayed	Safety rating:	CAT III 600 V
Polarity:	Automatic (No indication for positive) Minus symbol for negative		
Measurement Rate:	3 times per second		
Battery:	1.5 V AAA x 2 batteries		
Fuses:	mA / μA ranges: 0.5 A 600 V ceramic quick blow fuse / A range: 10 A 600 V ceramic quick blow fuse		

ORDERING INFORMATION

Description	Part number	Description	Part number
AVO215 CAT III multimeter	1015-233	Optional Accessories	
Included Accessories		Unfused red and black test leads with probes and croc clips	1002-001
Test leads		Fused red and black test leads (500 mA) with probes and croc clips	1002-015
Protective carry pouch			

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