AVO210

Digital multimeter



- 2000 count digital display
- 1000 V DC / 750 V AC ranges
- 10 A AC / DC ranges
- Resistance, frequency and capacitance ranges
- Non-contact voltage sense feature
- CAT III 600 V

DESCRIPTION

The AVO210 is a general purpose multimeter suitable for electricians, heating engineers and alarm technicians. The additional features make the instrument useful for a wide range of applications.

The instrument offers AC and DC voltage and current measurements as well as resistance, frequency and capacitance ranges. The AVO210 has simplified functions that avoid continuous reference to the user guide. The testleads included with the AVO210 have GS38 compliant shrouded tips.

AUTO-RANGING

When first selected, all functions are auto-ranging. A range button on the AVO210 allows multiple manual range selection on each function.

Minimum / Maximum measurements

The instrument has a MIN MAX function that allows the user to switch between minimum and maximum measurements. The display does not have to be continually monitored to capture a momentary increase or fall in readings.

DATA HOLD

This function allows a displayed result to be frozen which avoids having to remember a measurement value. The hold function can be nested within the MIN MAX feature which stops the AVO210 continuously updating the minimum and maximum values.

VOLTAGE MEASUREMENTS

Both AC and DC voltage measurements up to 750 V and 1000 V respectively are possible with the AVO210.

CURRENT MEASUREMENTS

A separate fused terminal is provided for current measurements up to 10 A for both AC and DC.

CONTINUITY / DIODE TESTING

The continuity function features a buzzer and provides the user both optical and audible indication of identifying and confirming continuity between two points. This function also allows forward and reverse bias testing of diode and semiconductor junctions.

VOLTSENSE FUNCTION

The AVO210 has a built in non-contact voltage sensor fitted in the top of the instrument that is activated by the Voltsense button.

RESISTANCE, CAPACITANCE AND FREQUENCY

Resistance can be measured directly on the ohms range from 0 to 20 M Ω with capacitance measurements from 0 to 2.000 mF. In addition, frequency measurements from 0 to 20 MHz are possible.

AVO210 DIGITAL MULTIMETER

Megger.

SPECIFICATIONS

Display 2000 counts

Polarity Automatic, positive implied,

negative indicated

Over-range indication "OL" or "-OL"

Battery indicator "<" is displayed when the batteries

voltage drops below operating voltage

Auto power down Approx 10 minutes

Operating ambient Non-condensing ≤10 °C, 11 °C ~ 30 °C

(≤80% R.H) 31°C ~ 40 °C (≤75% R.H), the si

41 °C ~ 50 °C (≤45% R.H)

Storage temperature -20 °C to 60 °C, 0 to 80% R.H. when range and humidity battery removed from meter

Temperature co-efficient $0.15 \times (Spec. Accy.) / ^{\circ}C, < 18 ^{\circ}C$

or > 28 °C

Sample rate Samples 2 times per second nominal

Maximum altitude 6561.7 ft (2000 m)

Safety

Complies with EN61010-1, UL61010-1, IEC 61010-1,

 $\mbox{V/}\Omega$ CAT III 600 V, CATII 1000 V

A CAT III 500 V

Pollution degree 2

Power supply 1.5 V x 2 LR03 or AAA size

Battery life Alkaline 250 hours

Dimensions 74 mm x 156 mm x 44 mm

Weight 320 g

ELECTRICAL Accuracy is ± (% reading + number of

digits) at 23° C \pm 5° C < 80° RH.

AC/DC volts

Range 200.0 mV

2.000 V *

20.00 V ~ 200.0 V * 750 V AC / 1000 V DC

AC Accuracy Unspecified

 \pm (1.5%+5 dgts) 50 Hz ~ 300 Hz \pm (1.5%+5 dgts) 50 Hz ~ 500 Hz * \pm (1.5%+5 dgts) 50 Hz ~ 500 Hz *

DC Accuracy $\pm (0.5\% + 2 \text{ dgts})$

Over voltage protection 1000 V DC or 750 V AC rms. Input Impedance 10 M Ω // less than 100 pF.

* CMRR / NMRR : (Common Mode Rejection Ratio) (Normal Mode Rejection Ratio)
 VDC
 CMRR > 100 dB at DC, 50 Hz / 60 Hz

 NMRR
 > 50 dB at DC, 50 Hz / 60 Hz

AC CONVERSION TYPE

VAC

Average sensing rms indication

AC conversions are ac-coupled, true rms responding, calibrated to the sine wave input.

* The minimum LCD reading is 1400

CMRR > 60 dB at DC, 50 Hz / 60 Hz

count in Auto Ranging Mode.

Crest Factor

C.F. = Peak / Rms

C.I. = I Cak / Idilis

+ 1.5% addition error for C.F. from 1.4 to 3 + 3% addition error for C.F. from

3 to 4

DC/AC current

Range 2.000 A

10.00 A **

DC Accuracy $\pm (1.0\% + 3 \text{ dgts})$

 $\pm (1.0\% + 3 \text{ dgts})$

AC Accuracy $\pm (1.5\% + 5 \text{ dgts})$

50 Hz ~ 500 Hz*

Voltage Burden 2 V max

2 V max

OVERLOAD PROTECTION

A input: 0 A (500 V) fast blow fuse

* AC Conversion Type Conversion type and additional

specification are same as DC/AC voltage

** Ampere Testing Duty Ratio Table

Ampere	Testing Time	Rest Time
10 A	1 min	10 min
9 A	2 min	10 min
8 A	3 min	10 min
7 A	4 min	10 min
6 A	5 min	10 min
5 A	Continually	N/A

RESISTANCE MEASUREMENTS

Range	Accuracy	Voltage Burden
200.0 ~ 200.0 ΚΩ **	$\pm (0.7\% + 3 \text{ dgts})$	2 V max
2.000 MΩ **	$\pm (1.0\% + 3 \text{ dgts})$	2 V max
20.00 MΩ *	$\pm (1.5\% + 3 \text{ dgts})$	2 V max
* <100 dgt rolling		

 $\mbox{*}$ * The minimum LCD reading is 1400 count in Auto Ranging Mode.

Open circuit voltage -1.3 V approx.

DIODE CHECK

Range (Diode symbol) **Resolution** 10 mV

Accuracy $\pm (1.5\% + 5 \text{ dgts})^*$

FREQUENCY

Range	2000 Hz ~ 200.0 KHz
	2.000 MHz ~ 20.00 MHz
Sensitivity	>1.5 Vac rms, <5 Vac rms
	>2 Vac rms, <5 Vac rms
Accuracy	Frequency: 0.01%±1 digit
	Frequency: 0.01%±1 digit

CAPACITANCE

Range	2.000 nF ~ 200.0 μF -
	2.000 mF *
Accuracy	$\pm (1.9\% + 8 \text{ dgts})$
	$\pm (1.9\% + 8 \text{ dgts})$
Overload Protection	600 V rms
	600 V rms
Input impedance	10 M Ω // less than 100 pF.

Description	Order Code
AVO210 digital multimeter CAT III 600 V	1006-969
Included accessories	
Test leads	
Optional accessories	
Pouch	2007-366



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