

KEY FUNCTIONALITY

CAT III and CAT IV compliance to IEC 61010*

CAT IV surge protection provides the highest protection in the industry when used on high energy electrical installations, as well as normal mains supplies and electrical equipment.

Measurement range

A choice of 600 V or 1000 V measurement range across AC and DC voltage supplies gives the best match to your application at the right price.

Voltage is shown as digital and analogue quantity.

Phase sequence detection (rotation)

Detection of phase sequence identifies incorrectly wired three phase circuits, motors and generators, to make sure operation is correct and prevent damage or possible electric shock.

Input impedance switching

Unique 10 MΩ and 10 kΩ switching, without changing test range, allows fast and safe detection of unintentionally coupled ghost voltages. High input impedance does not load the circuit under test, which prevents any significant influence on the voltage.

However, isolated circuits can exhibit a voltage that is capacitance coupled, but with no low impedance source. A low input impedance of 10 kΩ will collapse an unintentionally capacitance coupled voltage, which correctly identifies an isolated circuit.

Non-contact live circuit detection

Non-contact detection of live circuits, cables and conductors. Dual High / Low sensitivity enables the detection of live circuits from a distance, or pinpoint an individual conductor or circuit.

Detection is provided by visual (flashing display and symbols) and an audible beep.

High frequency interference filtering

Voltage measurements up to 5 kHz are possible. However, the selectable 800 Hz (3 db) filter prevents the interference of high frequency noise, such as those found on variable speed drive circuits.

LIVE CIRCUIT DETECTION

Safety compliance to CAT IV 600 V (AVO830) and combined CAT III 1000 V / CAT IV 600 V (AVO835) for use on high energy, low voltage electrical applications.

Measurement tools

A range of tools are available to help in the capture of difficult measurement quantities, including:

- Minimum and Maximum
- Average
- Hold
- Auto hold
- Smoothing of the measured quantity

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Voltage DC	
Maximum range	AVO830: 600 V AVO835: 1000 V
Maximum resolution	0.1 mV
Accuracy**	± 0.1% + 2 dig
Voltage AC	
Maximum range	AVO830: 600 V AVO835: 1000 V
Maximum resolution	0.1 mV
Accuracy**	± 1.0% + 3 dig
Current DC	
Maximum range	10 A
Maximum resolution	0.01 mA
Accuracy**	± 1.0% + 3 dig
Current AC	
Maximum range	10 A
Maximum resolution	0.01 mA
Accuracy**	± 1.5% + 10 dig
Resistance	
Maximum range	50 MΩ
Maximum resolution	0.01 Ω
Accuracy**	± 1.0% + 2 dig
Conductance	
Maximum range	60 nS
Maximum resolution	0.01 nS
Accuracy**	± 1.5% + 10 dig
Capacitance	
Maximum range	20 mF
Maximum resolution	1 nF
Accuracy**	± 2% + 2 dig
Diode	
Maximum range	2.8 V
Maximum resolution	0.001 V
Accuracy**	± 1.0% + 2 dig
Temperature	
Range	-20 °C / 300 °C (-4 °F / 572 °F)
Maximum resolution	0.1 °C/°F
Accuracy**	± 1.0°C + 20 dig
Phase rotation	
Operating voltage	90 Vac to 440 Vac
Operating frequency	50 Hz / 60 Hz nominal

* Model Dependant

** Accuracies are best accuracies for each function

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-10 °C / 50 °C (14 °F / 122 °F)
Storage temperature	-30 °C / 70 °C (-22 °F / 158 °F)
Humidity (without condensation)	90% at 40 °C (104 °F)
Altitude	≤ 2000 m (6562 ft)
IP Rating	IP54

SAFETY SPECIFICATIONS

Over-voltage category	AVO830: EN 61010-1 600 V CAT IV AVO835: EN 61010-1 1000 V CAT III / 600 V CAT IV
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MECHANICAL AND GENERAL SPECIFICATIONS

Size	45 x 95 x 195 mm (1.8 x 3.7 x 7.7 in)
Weight	420 g (0.915 lb)
Warranty	1 year (extendable to 3 years free when registered on the Megger web site)
Battery life	2 x AA Alkaline: 150 hours typical, without back-light

ORDERING INFORMATION

Description	Order Code	Description	Order Code
AVO830	1007-494	Optional Accessories	
AVO835	1008-221	UKAS calibration certificate	
Included Items		Test lead set and crocodile clips	1002-001
Red/Black Silicone test leads with Probes + Clips		2 wire 500 mA fused test lead set	1002-015
Owners information CD		Magnetic strap	1010-013
Batteries 2 x AA Alkaline			
Thermocouple Type K (AVO835)			

SALES OFFICE

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AVO830--AVO835_DS_enus_V01

www.megger.com
ISO 9001

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