MARTINDALE ELECTRIC
Keeping You Safe

VT12PD-S, VT25PD-S & VT28PD-S

Voltage tester & proving device

Technical Data









VT25 & VT28

CAT III 1000V | CAT IV 600V

VT12

CAT III 690V | CAT IV 300V

Key features

- AC/DC LED voltage indication
- Continuity test – LED & buzzer
- Measures 12V to 690V AC/DC
- Includes continuity test
- GS38 & BS EN61243-3 compliant
- Indicate voltage even if battery is dead

Additional features VT25/VT28

- White LED torch light
- Phase rotation test
- Single pole phase test
- LCD display of voltage (VT28 only)

PD690S

- Ideal for proving low and high impedance voltage indicators, test lamps and two pole testers
- Tough overmoulded low profile design
- Long battery life with low battery indicator and auto power off

Safe isolation procedures require voltage indicators to be proved against a known source both before and after use. As the UK market leader in safe isolation, Martindale supplies a kit with the VT12, VT25 or VT28 two pole voltage tester and matching PD690S proving unit.

These are housed in a TC71 carry case (VT12) or TC72 carry case (VT25/VT28) with a neck strap, making it easy to carry and use the equipment on site.

The voltage testers are compact two pole testers for measuring AC/DC voltages from 12V to 690V. Auto power-off ensures a long battery lifetime. AC/DC voltage detection and continuity functions all have bright LED indication. In addition to 7 LED voltage thresholds, the VT28 also displays voltage values on an LCD display.

The voltage testers conform to the latest safety standards and includes removable probe caps for GS38 compliance. Additional safety features include a 1.2m double insulated cable with a black outer and contrasting inner core to give a visual warning of any damage.

VT25 and VT28 have a built-in white LED torch close to the probe tips makes it easy to use in low light environments. Additional capabilities include phase rotation testing plus single pole voltage detection.

Prove your voltage tester is working with our new, compact PD690S proving device, now with auto shut off. The device produces 700V AC/DC enabling voltage indicators and devices with ranges up to 700V to be checked.

IMPORTANT: Voltage Indicators should always be tested with a proving unit or known live source before and after use.

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Specifications

FUNCTION	VT12	VT25	VT28	PD690S
ELECTRICAL				
Maximum working voltage	690V DC & AC rms			
Nominal voltage threshold indications	12, 24, 50, 120, 230, 690V AC/DC			
Nominal voltage threshold tolerance	Conforms to BS EN 61243-3:2014			
Internal impedance at ELV AC	260kΩ			
Polarity indication	from 12V DC/AC rms			
Range detection	automatic			
Response time	<1s to 100% of each nominal voltage			
Frequency range	DC, 0 to 65Hz	DC, 16 to 400Hz		
Test current (In)	<3.5mA			
Duty ratio	30s ON (operated) / 240s OFF (recovery)			
Overvoltage protection	690V DC or AC rms			
Output voltage				690V nominal
Output frequency				50Hz nominal
DIGITAL VOLTMETER				
Voltage range			10V to 690V (DC, 16 to 400Hz)	
Resolution			0.1V	
Accuracy			± (3% + 5 digits)	
SINGLE POLE PHASE TEST				
Voltage range		100 to 690V AC rms		
Frequency range		50 to 60Hz		
PHASE ROTATION TEST				
Voltage range		120 to 400V AC rms (phase to earth)		
Frequency range		50 to 60Hz		
CONTINUITY				
Resistance range	0 to 200kΩ	0 to 500kΩ		
Test current	3μA			
Overvoltage protection	690V DC or AC rms			
ENVIRONMENTAL				
Temperature (Operating)	-10°C to 55°C			-10°C to 40°C at max.
Temperature (Storage)	-20°C to 70°C, Non condensing			
Humidity (Operating & Storage)	≤ 85% R.H.			70% R.H.
Altitude	up to 2000m			
Pollution degree	2			
GENERAL				
Power	2 x 1.5V, AAA alkaline batteries (IEC LR03, NEDA 24A)			6 x 1.5V, AA alkaline batteries (IEC LR6, NEDA 15A)
Battery consumption	30mA max.	80mA max.		
Dimensions	250 x 72 x 40 mm	285 x 72 x 41 mm		150 x 80 x 35mm
Weight	approx. 200g	250g		350g approx. with batteries
SAFETY				
Conforms to	CAT III 690V, CAT IV 300V	BS EN 61243-3, BS EN 61010-1 CAT IV 600V, CAT III 1000V		
	Class II, double insulation			
IP rating	IP54	IP64 to BS EN 60529		
	GS38 compliance (with probe covers fitted)			
EMC				
Conforms to	BS EN 31326-1			

Included

VT12PD-S: 2 x 1.5V AAA batteries, 6 x 1.5V AA alkaline batteries, 2 x probe tip covers, instruction manual and TC71 carry case

VT25PD-S: 2 x probe tip covers, 2 x 1.5V AAA batteries, 6 x 1.5V AA alkaline batteries, instruction manual and TC72 carry case

VT28PD-S: 2 x probe tip covers, 2 x 1.5V AAA batteries, 6 x 1.5V AA alkaline batteries, instruction manual and TC72 carry case

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