

SPT - Surge Protection Tester



Multifunction Surge Protection Tester

Use the Novaris Surge Protection Tester to monitor and diagnose Novaris products without built in visual indication.

Voltage Clamping and Switching tests

Voltage clamping devices such as Metal Oxide Varistors or Silicon Avalanche Diodes are rated by their breakdown voltage. The SPT-02 applies an increasing voltage until 1mA of current flows through the clamping component.

Voltage switching devices such as Spark Gaps or Gas Discharge Tubes are rated by their firing voltage. The SPT-02 applies an increasing voltage until it registers the short circuit produced by the arc.

These values are presented on the 2 x 16 character display until the next test is performed.

Multifunction

Other test modes supported include insulation resistance to 8GΩ at up to 1000V, voltmeter, diode testing and resistance testing from 0.01Ω to 400kΩ.

Portable

The SPT-02 is designed with portability in mind. The unit comes in a carry case and is powered by 6 x AA batteries.

Product Specifications

Model	SPT-02
MOV Test	
Measuring Range	5 - 1020 VDC
Voltage Accuracy	± 3 %
GDT Test	
Measuring Range	5 - 1020 VDC
Voltage Accuracy	± 3 %
Voltmeter	
DC Voltage	0 - 950 V
AC Voltage	0 - 700 V
Resolution	1 V
Voltage Accuracy	± 3 %
Insulation Resistance	
Test Voltage	250 V, 500 V, 1000 V
Measuring Range	250 V → 0.2 MΩ - 2 GΩ 500 V → 0.2 MΩ - 4 GΩ 1000 V → 0.2 MΩ - 8 GΩ
Accuracy	0.2 MΩ - 4 GΩ → ± 3 % 4 MΩ - 8 GΩ → ± 5 %
Short Circuit Current	1.2 mA
Polarisation Index (PI)	on all ranges
Detective Absorption Ratio (DAR)	on all ranges
Diode Test	
Test Voltage	5 VDC
Max. Test Current	1.5 mA
Measurement Voltage	0 - 4.5 V
Accuracy	± 3 %

Model	SPT-02
Continuity	
Ranges	0.01 - 100 Ω 100 - 300 Ω 300 - 1999 Ω
Accuracy	0.01 - 100 Ω → ± 1.0 % 100 - 300 Ω → ± 1.5 % 300 - 1999 Ω → ± 2.0 %
Auto Null	up to 5 Ω
Buzzer	up to 3 Ω
kΩ Test	
Ranges	1- 400 kΩ
Short Circuit Test Current	≥ 1.3 mA
General	
Fuse	500 mA 250 V Fast Blow
Display	2 Line x 16 Character LCD
Dimensions	205 mm x 90 mm x 55 mm (L x W x D)
Power Source	1.5 V AA x 6
Storage Temperature	-20 to +70 °C
Weight	1.5 kg
Customs Tariff	85354010
Accessories	Test Leads Fuse (0.5 A 250V) Heavy Duty Case Instruction Manual Batteries
Standards	EN 61010-1 CATIII 600 V EN 61326-1

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