

SPT-02

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 8G Ω at up to 1000V, voltmeter, diode testing and resistance testing from 0.01 Ω to 400k Ω .

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.



Image for illustrative purposes only

Specifications









Electrical Specifications

Power Source	1.5 V AA x 6
Fuse	500mA 250V
MOV Test - Measuring Range	5 - 1020 VDC
MOV Test - Voltage Accuracy	$\pm 3\%$
GDT Test - Measuring Range	5 - 1020 VDC
GDT Test - Voltage Accuracy	$\pm 3\%$
Voltmeter DC - Voltage	0 - 950V
Voltmeter - AC Voltage	0 - 700V
Voltmeter - Resolution	1V
Voltmeter - Voltage Accuracy	$\pm 3\%$
Insulation Resistance - Test Voltage	250V, 500V, 1000V
Insulation Resistance - Measuring Range @250V	0.2M Ω - 2G Ω
Insulation Resistance - Measuring Range @500V	0.2M Ω - 4G Ω
Insulation Resistance - Measuring Range @1000V	0.2M Ω - 8G Ω
Insulation Resistance Accuracy	$\pm 5\%$
Insulation Resistance - Short Circuit Current	1.2mA
Insulation Resistance - Polarisation Index (PI)	on all ranges
Insulation Resistance - Detective Absorption Ratio (DAR)	on all ranges
Diode Test - Test Voltage	5 VDC
Diode Test - Maximum Test Current	1.5mA
Diode Test - Measurement Voltage	0 - 4.5V
Diode Test - Accuracy	$\pm 3\%$
Continuity - Ranges	0.01 Ω - 1999 Ω
Continuity - Accuracy	$\pm 2\%$
Continuity - Auto Null	up to 5 Ω
Continuity - Buzzer	up to 3 Ω
k Ω Test - Ranges	1- 400 k Ω
k Ω Test - Short Circuit Test Current	≥ 1.3 mA

Indication Specifications

Display		2 Line x 16 Character LCD
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Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		Freestanding
Environmental rating		IP20
Enclosure material		Polycarbonate
Enclosure finish		Yellow

Shipping Specifications

Weight		1.5kg
Customs tariff		85354010

Other Specifications

Product Code		SPT-02
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