

Features

- Rugged industrial case with handle
- Single button activation
- Measures both overvoltage and in-line resistance
- High accuracy peak reading circuit
- Precise auto-sensing shutoff
- Precision in-line resistance measurement

Applications

Suitable for testing:

- 5-pin surge protectors
- 4-pin surge protectors (requires optional adapter)
- 1-pin surge protectors (requires optional adapter)

4040 Series 5-Pin Module Surge Protector Test Set

Description

The Bourns® Model 4040 Series 5-Pin Module Surge Protector Test Set is a handheld or mounted tester designed to measure the clamping voltage, DC breakdown voltage and in-line resistance of any 5-pin module. Testing is based on Telcordia GR-974 Standards limits of 215 V to 600 V for a Standard 5-pin, or 215 V to 800 V for a Carbon Block 5-pin. There is also an in-line resistance test of less than 22 ohms.

The Model 4040 Series has a one-button testing sequence which will test TIP to GROUND, RING to GROUND, TIP-in to TIP-out and RING-in to RING-out. If all criteria are met, a green LED will be lit. During any testing sequence, if the tester detects a failure, the tester will stop the test and a red LED will be lit. The tester has an auto-shutoff feature which will turn off after five minutes of inactivity.

Power is supplied via an AC/DC adapter or optional battery.

Operation

Holding the test button and then releasing will apply a linear ramp to the device under test. Sensing circuitry automatically terminates the test when either the DC breakdown or 1 mA clamping voltage is reached. The test value is compared to the internal memory table to determine a Pass/Fail criteria, then moves on to the next sequence. The Pass/Fail LED will stay lit for approximately 3 seconds. For testing the Carbon Block, pressing the button twice will enable the tester to use an alternate table criteria and the Pass/Fail LED will blink instead of remaining steadily lit.

Specifications

Open Circuit Voltage Rate of Rise.....	Between 1 kV to 2 KV/s
Maximum Tested Output Voltage.....	1000 V
Useable Measuring Range	
Standard 5-pin	215 - 600 V
Carbon Block 5-pin	215 - 800 V
Test Current for Clamping Devices.....	1 mA ±10 %
Test Current for Crowbar Devices	> 1 A
In-line Resistance Measurement.....	< 22 ohms
Operating Temperature.....	0 to +50 °C
Storage Temperature.....	-10 to +60 °C
Measurement Accuracy	0.5 %
Power Source	18 Vdc
Optional Batteries	
Battery Life (Based on continuous cycles with a known good device of 350 V)	
Alkaline.....	> 1,000 tests
Lithium	> 2,000 tests
Shipping Weight	3 lbs.
Warranty	2 years

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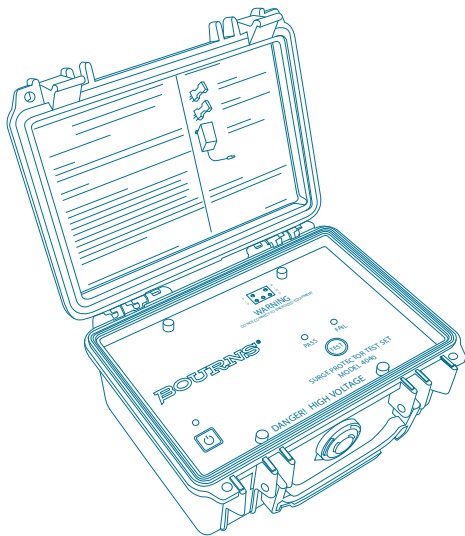
Users should verify actual device performance in their specific applications.

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4040 Series 5-Pin Module Surge Protector Test Set



Product Dimensions (Approximate, Rounded up to the Nearest 0.1 Inch)



Width 8.25 ”
 Length..... 6.50 ”
 Height 3.50 ”
 Height with Lid Open 9.25 ”

How To Order

4040 - 01 - W

Model Number Designator _____

Tester Configuration _____

01 = Standard Tester

Mounting Configuration _____

(Blank) = Portable

W = Wall Mount / Frame Mount

Part No.	Accessories Included
4040-01	Portable – 1 each P/N 50504-01 120 Vac to 18 Vdc Adapter
4040-01-W	Wall Mount (DIN-Rail type) – 1 each P/N 50504-01 120 Vac to 18 Vdc Adapter 1 each Wall Mount Kit

Part No.	Available Separately
50504-01	120 Vac to 18 Vdc Adapter
72292.....	1-pin to 5-pin Adapter
72293.....	4-pin to 5-pin Adapter
72296.....	5-pin Verification Kit

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