



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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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

REV. C 03/15

Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.