

# Insulation Tester Checker

## Model 380399

### Introduction

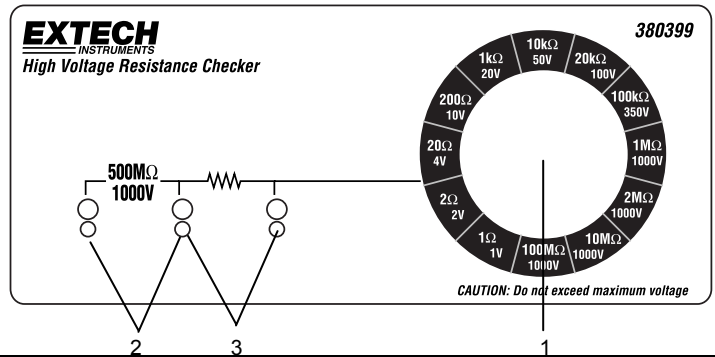
Congratulations on your purchase of the Extech 380399 Insulation Tester Checker. This device offers 12 resistance simulation ranges from 1Ω to 100MΩ on the range dial and an additional fixed range on the binding posts (500MΩ / 1000V). Careful use of this tester will provide years of reliable service.

### Specifications

Resistance ranges (ohms)	1, 2, 20, 200, 1k, 10k, 20k, 100k, 1M, 2M, 10M, 100M, 500M
Voltage limits	1V to 1000V depending on resistance range
Connection	Three (3) binding posts
Accuracy	1Ω to 2Ω: ± (1% + 0.03Ω) 20Ω to 10MΩ: ± 1% 100MΩ: ± 1.5% 500MΩ: ± 3%
Dimensions	5.875 x 2.875" (7 x 15cm)
Weight	Approx. 5.8 oz. (164.4g)

### Description (see diagram at right)

1. Range selector dial
2. Binding posts for fixed 500MΩ (1000V) range
3. Binding posts used for each of the 12 dial ranges



### Operation

#### Binding Post Connections

The binding posts can be used for connections in several ways:

1. A banana plug can be inserted directly into the posts.
2. Bare wire can be threaded through the post after the post has been unscrewed. Once the bare wire is threaded, tighten the posts as necessary.
3. Alligator clips can be used but use caution not to strip the post threads or damage the ABS plastic post housing.

Connect to the center post and the right-most post for the ranges available on the rotary switch. Connect to the center post and left-most post for the 500MΩ/1000V fixed range.

#### Range Selection

The 12-position rotary switch is used to select the desired resistance/voltage range. Each resistance range has an associated voltage rating (printed directly on the tester faceplate). The fixed 500MΩ (1000V) range is selected by connecting to the left-most and center post as described earlier.

#### Testing

This device can be used to verify the calibration integrity of insulation testers, megohmmeters, multimeters, and calibrators. Connect as shown in the diagram at right then apply the signal from the device under test to the 380399. Ensure that the voltage supplied by the device under test is not greater than the voltage range selected on the 380399. The device under test should read the value of resistance selected on the tester. If it does not, the device under test may need calibration, adjustment, or repair.

