

SPECIFICATION

INSULATION RANGE

Insulation Resistance: 0.1 Ω - 2000 MΩ
Accuracy: ±1.25% of fsd on a 2.8 in. (71.1mm) arc length

NOMINAL TEST VOLTAGES

d.c.: 100 V, 250 V, 500 V, 1000 V.

ACCURACY

250 V, 500 V, 1000 V +30%, -0% max.
 50 V, 100 V, +40%, -0% max.

Midscale: 4 MΩ

Short Circuit Current: 1.9 mA

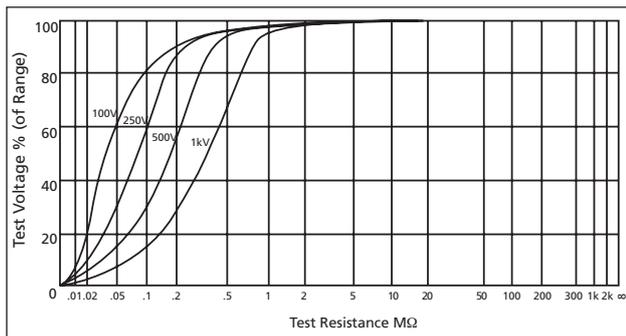
Maximum Load Capacitance: 1 μF with less than ±0.1" pointer movement

Discharge: Up to 1 μF capacitance is discharged from 1000 V to less than 42.4 V in less than 4 secs

RESISTANCE RANGE

0.1 Ω - 5000 Ω

TEST VOLTAGE CHARACTERISTICS



Open circuit Test voltage: 3 V ±0.2 V
Short Circuit Current: 2 mA ±10%
Accuracy: ±1.25% of fsd on a 2.8 in. (71.1mm) arc length:

SAFETY VOLTAGE CHECK

Voltage measurement: 0.1 V - 600 V a.c.; the meter is RMS calibrated and average responding
Safety voltage indicator: Indicates the presence of d.c. voltages. Scaling is not the same as the a.c. meter. True d.c. voltage equals scale reading divided by 2.22
Accuracy: 2.5% of full scale

POWER SUPPLY

MJ359: Dual operation low voltage brushless a.c. generator or 120 V 50/60 Hz mains (line) supply

SAFETY

The instruments meet the requirements for double insulation to IEC 1010-1(1995), EN 61010 (1995) to installation Category II, 300 V phase to earth (ground)

FLASH TEST

6 kV a.c. r.m.s.

FUSES

500 mA (FF) 660 V Ceramic 50 kA HBC 11/4 x 1/4 in. (32 mm x 6 mm)
 7A (F) 440 V Ceramic 10 kA HBC
 11/4 x 1/4 in. (32 mm x 6 mm)
 100 mA (F) HBC 20 mm x 5 mm (for line protection only)

MJ359 only:

Power connection plug fuse 100 mA 240 V HBC (20 mm x 6 mm)
 Mains power cord fused plug (when applicable) 3 A 250 V ceramic HBC fuse to BS1362 11/4 x 1/4 in. (32 mm x 6 mm)

E.M.C.

In accordance with IEC 61326-1.
 Note: These instruments are designed for use in a controlled electromagnetic environment

OPERATING TEMPERATURE RANGE

32° to 113°F (0° to 45°C) for battery operated models
 14° to 122°F (-10° to 50°C)

HUMIDITY RANGE

Operating:
 70% RH max. at 68°F (20°C)
 60% RH max. at 95°F (35°C)
 50% RH max. at 105°F (40°C)

Storage: 95% RH max. at 95° F (35°C)

DIMENSIONS

5.1 H x 4.9 W x 7 L in.
 (130 H x 125 W x 180 L mm)

WEIGHT

Approximately 1 kg (2,3lb)

CLEANING

Wipe disconnected instrument with a clean cloth dampened with soapy water or Isopropyl Alcohol (IPA).

ORDERING INFORMATION

Description	Order Code	Description	Order Code
MJ159 Hand-cranked insulation tester	212159	Optional accessories	
MJ359 120 Va.c./hand-cranked insulation tester	212359	Test record card (pack of 20)	6111-216
		Black test lead with large alligator clip	6220-295
Included accessories		Red test lead with large alligator clip	6220-586
User guide	6172-113	Green test lead with large alligator clip	6220-587
Test lead set (3 leads, 3 prods, 3 clips)	6220-436	Set of test leads with fused prods (FPK5) - 1000 V a.c. 500 mA fuse	6111-288
Power cord (where applicable)	25970-002	Test lead set, 3.6m [12 ft] (1 pair)	210972
Test record card (5 supplied)	1010-850	Electrodes (for floor testing), 2.25 kg [5 lb] each (1 pair)	260565
Carrying case	6420-111	'A Stitch In Time'	AVTM21-P8B

SALES OFFICE

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