

# MIT515, MIT525, MIT1025, MIT1525

## 5 kV, 10 kV, 15 kV DC Insulation resistance testers



- Measures up to 30 TΩ
- Safety rated up to CAT IV 1000 V to 3000 m
- Unique dual-case design - additional user protection
- Operates from battery or AC mains supply
- Rapid charge Li-ion battery
- Advanced memory with time/date stamp

### DESCRIPTION

Megger's new range of DC insulation testers MIT515, MIT525, MIT1025 and MIT1525 are targeted at original equipment manufacturers and industrial companies. The top of the range MIT1525 performs insulation resistance tests up to 15 kV with a 30 TΩ maximum resistance and an accuracy of  $\pm 5\%$  from 1 MΩ up to 3 TΩ. The MIT515 offers IR, DAR and PI functions but has no memory functionality. MIT525, MIT1025 and MIT1525 have a full suite of test modes as well as on-board memory and the ability to stream data/download data to a PC/laptop. Instrument productivity is a focus of the new MIT range which offers rapid charge batteries and operation from an AC source if the batteries are flat. Rapid charge batteries enable > 60 minutes testing after a 30 minute charge.

**MIT515:** 5 kV IRT with PI and DAR but no memory

**MIT525:** 5 kV IRT with all test modes including a ramp test plus advanced memory functions with recall to screen, RTC for time/date stamp of results and USB cable interface to PC/PowerDB

**MIT1025:** 5 kV IRT with all test modes including a ramp test plus advanced memory functions with recall to screen, RTC for time/date stamp of results and USB cable interface to PC/PowerDB

**MIT1525:** 5 kV IRT with all test modes including a ramp test plus advanced memory functions with recall to screen, RTC for time/date stamp of results and USB cable interface to PC/PowerDB

Safety rating is not compromised on the MIT range with all terminals safety rated to CATIV 600 V to 3000 m (5 kV, 10 kV) or CATIV 1000 V to 3000 m (15 kV). A range of 5 kV and 10 kV test leads are available plus dedicated 15 kV test leads which are double insulated with clips designed for 15 kV creepage paths. The 15 kV leads are

supplied in a holdall. Suitably rated HV gloves and other personal protection equipment are required to be worn when testing.

The MIT range share dual case design which includes a tough outer case to protect the tester from knocks/drops and an inner fire retardant case. The IP rating is IP 65 case closed eliminating moisture and dust ingress.

An intuitive user interface ensures no lost time remembering how to use the tester. Simplicity of operation is achieved with two rotary switches and the large backlight display which enables multiple results to be displayed simultaneously. A graphical quick start guide is provided inside the lid to assist first time users.

Five preset voltage ranges are provided in insulation test mode, plus a user settable lock voltage range. Preconfigured diagnostic tests include Polarisation Index (PI), Dielectric Absorption Ratio (DAR), dielectric discharge (DD), Stepped Voltage (SV) and ramp test. Advanced memory storage includes time/date stamping of results, logging of data and recall of results to screen. A fully isolated USB interface is used for safe transfer of data to Megger's asset management software; PowerDB Pro, Advanced and Lite packages.

Test leads are double insulated  $\square$  with clamps rated at 3 kV  $\square$  equivalent to 6 kV single insulation for the medium clip leadset and 5 kV  $\square$  equivalent to 10 kV single insulation for the large clip. The 15k V leadset is insulated to 15 kV.

Advanced memory storage includes time/date stamping of results, logging of data and recall of results to screen. A fully isolated USB

device interface (type B) is used for safe transfer of data to Megger's PowerDB / Pro, Advanced and Lite asset management software. (MIT525, MIT1025 and MIT1525 only)

## APPLICATION

The Insulation Resistance (IR) test is a quantitative test which indicates the effectiveness of a product's electrical insulation. Applications include cables, transformers, motors/generators, circuit breakers and bushings. Common insulation tests are the "spot test", a 1 minute IR test and a 10 minute Polarisation Index (PI) test, where PI is the ratio R10min / R1min and is temperature independent.

## FEATURES AND BENEFITS

- Insulation resistance up to 30 TΩ @ 15 kV, 20 TΩ @ 10kV, 10 TΩ @ 5 kV
- IR, Timed IR, DAR, PI, DD, SV and ramp diagnostic tests
- High current – 3 mA short circuit current
- High noise immunity – 3 mA (5 kV and 10 kV) 6 mA (15 kV) of noise rejection
- Li-ion battery – up to 6 hrs continuous testing @ 5 kV with a 100M load, battery meets IEC 2133
- Safety rating: CATIV 600 V to 3000 m (5 kV, 10 kV) CATIV 1000 V to 3000 m (15 kV)
- Large LCD display with backlight
- Dedicated voltmeter function (30 V to 660 V)
- Advanced memory, on screen recall and real time clock for date/time stamped results (MIT525, MIT1025 and MIT1525 only)
- Download of on-board results via USB interface (MIT525, MIT1025 and MIT1525 only)
- Recorded temperature (measured by independent instruments) can be saved with test result (MIT525, MIT1025 and MIT1525 only)
- PowerDB Lite asset management software supplied (MIT525, MIT1025 and MIT1525 only)
- MIT515, MIT525 and MIT1025 safety rated at CAT IV 600 V (maintained to 3000 m altitude)
- MIT1525 safety rated at CAT IV 1000 V (maintained to 3000 m altitude)



## SPECIFICATIONS

<b>AC voltage (auto-ranging)</b>	<b>5 kV, 10 kV:</b> 90-264 V rms, 47-63 Hz 100 VA <b>15 kV:</b> 90-264 V rms, 47- 63 Hz 200 VA
<b>Battery charge time</b>	2.5 hours deep discharge, 2 hours normal discharge

## Battery life

11.1 V, 5.2Ah Li-ion batteries, meet IEC 62133:2003, MIT1525 has 2 battery packs

**Battery life MIT515, MIT525:** 6 hours (typical) continuous

testing at 5 kV with a 100 MΩ load

**Battery life MIT1025:** 4.5 hours (typical) continuous testing at 10 kV with a 100 MΩ load

**Battery life MIT1525:** 4.5 hours (typical) continuous testing at 15 kV with a 100 MΩ load

## Test voltage

**MIT515, MIT525:** 250 V, 500 V, 1000 V, 2500 V, 5000 V, V<sub>⊕</sub>

**MIT1025:** 500 V, 1000 V, 2500 V, 5000 V, 10000 V, V<sub>⊕</sub>

**MIT1525:** 1000 V, 2500 V, 5000 V, 10000 V, 15000 V, V<sub>⊕</sub>

**Lock test voltage** 100 V<sub>⊕</sub> to 1 kV in 10 V steps,  
1 kV to 5 kV in 25 V steps,  
5 kV to 15 kV in 25 V steps

**Test voltage accuracy** +4%, -0%, ±10 V nominal test voltage at 1 GΩ load (0°C to 30°C)

**Resistance range** 10 kΩ to 15 TΩ @ 5 kV,  
10 kΩ to 20 TΩ @ 10 kV,  
10 kΩ to 30 TΩ @ 15 kV

## Accuracy

### MIT515, MIT525 accuracy (23 °C)

	5000 V	2500 V	1000 V	500 V	250 V
±5% from 1MΩ to					
1 TΩ	500 GΩ	200 GΩ	100 GΩ	50 GΩ	
±20% from 1MΩ to					
10 TΩ	5 TΩ	2 TΩ	1 TΩ	500 GΩ	

### MIT1025 accuracy (23 °C)

	10 kV	5000 V	2500 V	1000 V	500 V
±5% from 1MΩ to					
2 TΩ	1 TΩ	500 GΩ	200 GΩ	100 GΩ	
±20% from 1MΩ to					
20 TΩ	10 TΩ	5 TΩ	2 TΩ	1 TΩ	

### MIT1525 accuracy (23 °C)

	15 kV	10 kV	5000 V	2500 V	1000 V
±5% from 1MΩ to					
3 TΩ	2 TΩ	1 TΩ	500 GΩ	200 GΩ	
±20% from 1MΩ to					
30 TΩ	20 TΩ	10 TΩ	5 TΩ	2 TΩ	

**Guard terminal performance** Guards out parallel leakage resistance down to 250 kΩ with a maximum additional resistance error of 1% with a 100 MΩ load

## Display

**Analogue:** 100 kΩ to 10 TΩ  
**Digital:** 10 kΩ to max a above

<b>Short circuit/charge current</b>	3 mA @ 5 kV, 10 kV, 15 kV
<b>Insulation test</b>	<b>Alarm:</b> 100 kΩ to 10 GΩ
<b>Capacitor charge</b>	
<b>MIT515, MIT525</b>	<3 s/μF at 3 mA to 5 kV
<b>MIT1025</b>	<5 s/μF at 3 mA to 10 kV
<b>MIT1525</b>	<7.5 s/μF at 3 mA to 15 kV
<b>Capacitor discharge</b>	
	<120 ms/μF to discharge from 5000 V to 50 V
	<250 ms/μF to discharge from 10000 V to 50 V
	<3500 ms/μF to discharge from 15000 V to 50 V
<b>Capacitance range</b>	
	0.01 nA to 6 mA
<b>Capacitance measurement accuracy</b>	±10% ±5 nF
<b>Current range</b>	0.01 nA to 6 mA
<b>Current accuracy</b>	±5% ±0.2 nA at all voltages (23 °C)
<b>Interference</b>	
<b>MIT515, MIT525:</b>	3 mA from 450 V to 5 kV
<b>MIT1025:</b>	3 mA from 960 V to 10 kV
<b>MIT1525:</b>	6 mA from 2100 V to 15 kV
<b>Voltmeter range</b>	30 V to 660 V ac or dc, 45Hz – 65Hz
<b>Voltmeter accuracy</b>	±3%, ±3V
<b>Timer range</b>	Up to 99 minutes 59 seconds, 15 second minimum setting
<b>Memory capacity</b>	5.5 hours logging @ 5 sec intervals (MIT525, MIT1025 and MIT1525 only)
<b>Test modes</b>	<b>MIT515:</b> IR, IR(t), DAR, PI <b>MIT525, MIT1025 and MIT1525:</b> IR, IR(t), DAR, PI, SV, DD, ramp test
<b>Interface</b>	USB type B (device) (MIT525, MIT1025 and MIT1525 only)
<b>Real time output</b>	1 Hz output readings (V, I, R) (MIT525, MIT1025 and MIT1525 only)

## ENVIRONMENTAL

<b>Maximum altitude</b>	3000 m (5 kV, 10 kV)
	3000 m (15 kV)
<b>Operating temperature range</b>	-20 °C to 50 °C
<b>Storage temperature range</b>	-25 °C to 65 °C
<b>Humidity</b>	90% RH non-condensing at 40 °C
<b>IP rating</b>	IP65 (lid closed), IP40 (lid open)

## SAFETY

**MIT515, MIT525 MIT1025:** CAT IV 600 V to 3000 m altitude  
**MIT1525:** CAT IV 1000 V to 3000 m altitude  
 Meets the requirements of IEC 61010-1,

**EMC** Meets the requirements of IEC61326-1

## Dimensions

**MIT515, MIT525, MIT1025:** L 315 mm x W 285 mm x H 181 mm

**MIT1525:** L 360 mm x W 305 mm x H 194 mm

**Weight** **MIT515, MIT525, MIT1025:** 4.5 kg  
**MIT1525:** 6.5 kg

## TEST LEADS SUPPLIED

The MIT515, MIT525, MIT1025 and the MIT1525 are all supplied with test leads that are compliant with the requirements of IEC61010-031:2008. The 5 kV models are supplied with one 3m lead-set with medium sized clips. The 10 kV models are supplied with two 3m lead-sets, one with medium sized clips and the other with large clips with insulation suited to 10 kV use and the 15 kV models supplied with a 3m lead-set, with large clips with insulation suited to 15 kV use.

These leads are designed based on Megger's extensive knowledge of insulation testing using the latest technology. The leads are in compliance with IEC61010-31:2008 which requires a fully insulated clip design.

### MEDIUM INSULATED TEST CLIP 3 M X 3 LEADSET - 5 KV AND 10 KV

These test leads are supplied as standard on MIT515, MIT525 and the MIT1025.

These clips are designed for clamping on larger diameter test pieces but where space is at a premium.

The insulation is designed only to protect the user from the output of Megger 5 kV and 10 kV (set below 6 kV) insulation resistance testers. The clips cannot in any circumstance be relied on to protect the user from live ac systems above 600 V a.c., r.m.s. in an CATIV environment.

**Cable insulation rating:** 12 kV dc (marked on cable)

**Cable type:** flexible dual insulated silicon (inner insulation layer coloured white to highlight damage)



## TEST LEADS SUPPLIED CONT.

### MEDIUM INSULATED TEST CLIP 3 M X 3 LEADSET - 15 KV

These test leads are supplied as an option on the MIT1525. These clips are designed for clamping on larger diameter test pieces but where space is at a premium. The insulation is designed only to protect the user from the output of Megger 15 kV (set below 6 kV) insulation resistance testers. The clips cannot in any circumstance be relied on to protect the user from live ac systems above 1000 V a.c., r.m.s. in an CAT IV environment.



**Cable insulation rating:** 15 kV dc (marked on cable)  
**Cable type:** flexible dual insulated silicon (inner insulation layer coloured white to highlight damage)

These test leads may also be supplied in none standard lengths to suit a particular application. Please contact Megger for a quotation. Minimum order quantities may apply.

### LARGE INSULATED TEST CLIP 3 M X 3 LEADSET

These test leads are supplied as standard on MIT1025 and MIT1525 Models (different leadset dependant on model). These clips are designed for clamping on larger diameter test pieces. The insulation is designed only to protect the user from the output of Megger 5 kV, 10 kV and 15 kV insulation resistance testers. The clips cannot in any circumstance be relied on to protect the user from live ac systems above 600 V a.c., r.m.s. in an CATIV environment.



**10 kV lead set**  
**Cable insulation rating:** 12 kV dc (marked on cable)  
**Cable type:** flexible dual insulated silicon (inner insulation layer coloured white to highlight damage)



**15 kV lead set**  
**Cable insulation rating:** 18 kV dc (marked on cable)  
**Cable type:** flexible dual insulated silicon (inner insulation layer coloured white to highlight damage)

The design of the lead sets is intended to facilitate connection to a variety of de-energized systems for the purpose of making insulation resistance measurements. In all cases it is the responsibility of the user to employ safe working practices and verify that the system is safe before connection. Even isolated systems may exhibit significant capacitance which will become highly charged during the application of the insulation test. This

charge can be lethal and connections, including the leads and clips, should never be touched during the test. The system must be safely discharged before touching connections.

### DESIGNED FOR EVERYDAY USE

Test leads are a key component of any precision instrument and that safety, long life, and the ability to provide reliable connections to a variety of test pieces found in everyday applications are of the utmost importance. Megger design test leads for both safety and practical operation.

### LOCKING HV INSULATED PLUGS/NON-REMOVABLE TEST CLIPS

All Megger 5 kV, 10 kV and 15 kV insulation testing test leads are fitted with unique locking HV plugs and non-removable test clips. This reduces the likelihood of a plug or clip inadvertently losing electrical connection and the capacitance of a long cable remaining lethally charged.

With the arrows on the plug finger guard horizontal on the instrument as shown to lock. Twist 90° to to unlock. In addition, for the same reason, the test clips are not removable from the test lead.



### PRACTICAL INSULATION DESIGN

Moving jaw fingers maintain the clips touch proof safety when clip is closed but flex back to allow metal teeth of the clip to contact test piece unimpeded when in use.



Megger clip being tested with IEC standard test finger for creepage and clearance.

### PRACTICAL JAW DESIGN

Curved jaws allow reliable connection around test pieces and flat jaw tips provide excellent connection and gripping of individual wires.





## OPTIONAL TEST LEADS

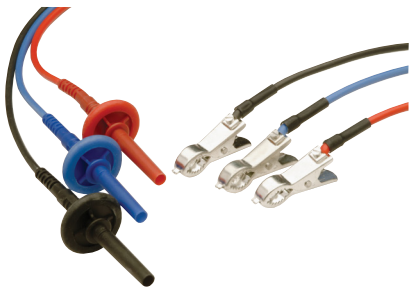
### MEDIUM AND LARGE TEST CLIPS

Test leads above with medium and large size insulated clips are available supplied as an option in 5m, 8m, 10m and 15m lengths. These are listed in the ordering information panel at the end of this data sheet. **These test leads may also be supplied in non-standard lengths to suit a particular application / requirement. Please contact Megger for a quotation, minimum order quantities may apply.**

Versions available for all MIT models

### COMPACT TEST CLIP LEADS

These clips are designed for clamping on test pieces where access is limited. There is no insulation on these clips.



**Extreme care must be taken** to avoid electric shock when connecting/ disconnecting due to the bare metallic clips.

**Cable insulation rating:** 12 kV dc (marked on cable)

**Cable type:** flexible dual insulated silicon (inner insulation layer coloured white to highlight damage)

**Fits:** MIT515, MIT525 and MIT1025

### COMPACT TEST CLIP WITH 5 OR 10 KV SCREENED CABLE

The clips are designed for clamping on test pieces where access is limited. There is no insulation on these clips. **Extreme care must be taken** to avoid electric shock when connecting/ disconnecting due to the bare metallic clips.

The screened test lead set consists of:

- A black/negative test lead that has been screened.
- A red/positive test lead that is not screened.

**Cable insulation rating:** 5 kV or 10 kV dc

**Cable type:** flexible screened PVC



**Note:** Screened test leads are an important accessory for those working in high noise environments, and/ or locations where test lead leakage could be a problem.

**Fits:** MIT515, MIT525 and MIT1025

### LARGE TEST CLIP WITH 15 KV SCREENED CABLE

Relative motion between unshielded long leads for a D.C. test causes a variation in capacitance between them. This in turn causes very low frequency currents to flow, creating interference with the D.C. being measured. In addition induced current from nearby cables or radiated noise from corona around HV bushings can interfere with measurements causing unstable readings. This can be greatly reduced by using a screened lead set.

The screened test lead set consists of:

- A black/negative test lead that has been screened.
- A red/positive test lead that is not screened.

**Cable insulation rating:** 15 kV dc

**Cable type:** flexible screened PVC

**Note:** Screened test leads are an important accessory for those working in high noise environments, and/ or locations where test lead leakage could be a problem.

**Fits:** MIT1525



### CONTROL CIRCUIT TEST LEAD SETS

This probe and clip leadset is designed for testing low voltage circuits with test voltages up to 1 kV.

The insulation is designed only to protect the user from the output of Megger 5 kV, 10 kV and 15 kV insulation resistance testers set to a maximum output voltage of 1 kV. Do not use this leadset at voltages above 1 kV.



**Cable insulation rating:** 1 kV dc

### FUSED TEST PROBE AND CLIP LEAD SET

This fused probe and clip leadset is designed for testing low voltage circuits with test voltages up to 1 kV. The leadset is GS38 compliant, fitted with FF500mA 50 kA fuses, which allows voltage measurements to be made in safety when using the user selectable voltage measuring range on the MIT515, MIT525, MIT1025 and MIT1525 instruments.



The insulation is designed only to protect the user from the output of Megger 5 kV and 10 kV insulation resistance testers set to a maximum output voltage of 1 kV. Do not use this leadset at voltages above 1 kV.

**Cable insulation rating:** 1 kV

**More detailed information can be found on the 5 kV, 10 kV and 15 kV insulation tester lead sets application note. This document can be downloaded from: [www.megger.com](http://www.megger.com)**

<b>Max. output voltage</b>	5 kV	5 kV	10 kV	15 kV
<b>Max. resistance</b>	10 TΩ	10 TΩ	20 TΩ	30 TΩ
<b>Accuracy from 1 MW to</b>	±5% ≤ 1 TΩ ±20% to 10 TΩ	±5% ≤ 1 TΩ ±20% to 10 TΩ	±5% ≤ 2 TΩ ±20% to 20 TΩ	±5% ≤ 3 TΩ ±20% to 35 TΩ
<b>Short circuit output current</b>	3 mA	3 mA	3 mA	3 mA
<b>Max. noise rejection</b>	3 mA	3 mA	3 mA	6 mA
<b>Four averaging filters</b>				
<b>Safety rating (to max. altitude)</b>	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 1000 V
<b>Max. altitude</b>	3000 m	3000 m	3000 m	3000 m
<b>Battery charge</b>	2.5 hrs	2.5 hrs	2.5 hrs	2.5 hrs
<b>Battery life single chg</b>	6 hrs	6 hrs	4.5 hrs	4.5 hrs
<b>Remote Control via USB</b>		*	*	*
<b>USB interface</b>		■	■	■
<b>Bluetooth® memory download and live stream</b>				
<b>On-board memory</b>		■	■	■
<b>Temperature value stored</b>		■	■	■
<b>Humidity value stored</b>		*	*	*
<b>Time/Date stamped results</b>		■	■	■
<b>Compact / lightweight</b>	4.5 kg	4.5 kg	4.5 kg	6.5 kg
<b>Easy rotary switch operation</b>	■	■	■	■
<b>Digital/Analogue display</b>	■	■	■	■
<b>Display Backlight</b>	■	■	■	■
<b>Voltage output measurement</b>	■	■	■	■
<b>Dedicated voltmeter</b>	■	■	■	■
<b>Default voltmeter function</b>	■	■	■	■

\* Features available on S1 range only.

## ORDERING INFORMATION

Description	Order Code	Description	Order Code	
MIT515-UK	1001-935	<b>HV test leads sest (MIT515, MIT525, MIT1025 only)</b> * These test leads may also be supplied in non-standard lengths to suit a particular application / requirement. Please contact Megger for a quotation, minimum order quantities may apply. 3 x 5 m with large insulated clips 1002-645 3 x 8 with large insulated clips 1002-646 3 x 10 m with large insulated clips 1002-647 3 x 15 m with large insulated clips 1002-648 3 x 5 m with medium insulated clips 1002-641 3 x 8 m with medium insulated clips 1002-642 3 x 10 m with medium insulated clips 1002-643 3 x 15 m with medium insulated clips 1002-644 COMPACT, BARE TEST CLIP: Lead length: 3 m 8101-181 COMPACT, BARE TEST CLIP: Lead length: 5 m 8101-182 COMPACT, BARE TEST CLIP: Lead length: 15 m 8101-183  <b>HV test lead sets (MIT1525 only)</b> 5 m lead set, large size insulated clips (3 x leads) 1005-259 10 m lead set, large size insulated clips (3 x leads) 1005-260 15 m lead set, large size insulated clips (3 x leads) 1005-261 3 m lead set, medium size insulated clips (3 x leads) 1005-262 10 m lead set, medium size insulated clips (3 x leads) 1005-263  <b>Screened - HV test lead sets (MIT515, MIT525, MIT1025 only)</b> 1 x 3 m, with 5 kV screened un-insulated small clips 6220-835 1 x 15 m, with 5 kV screened un-insulated small clips 6311-080 3 m, 10 kV screened un-insulated small clips 6220-834 10 m, 10 kV screened un-insulated small clips 6220-861 15 m, 10 kV screened un-insulated small clips 6220-833  <b>Screened HV test lead sets (MIT1525 only)</b> 3 m, 15 kV screened, large size insulated clips, supplied in carry holdall 1005-266 10 m, 15 kV screened, large size insulated clips, supplied in carry holdall 1005-267 15 m, 15 kV screened, large size insulated clips, supplied in carry holdall 1005-268 20 m, 15 kV screened, large size insulated clips, supplied in carry holdall 1005-269  <b>Other</b> CB101; 5 kV Calibration Box 6311-077 Calibration certificate - CB101 1000-113 UKAS calibration certificate CB101 1000-047		
MIT515-US	1001-936			
MIT515-EU	1001-937			
MIT515-AU	1001-938			
MIT525-UK	1001-939			
MIT525-US	1001-940			
MIT525-EU	1001-941			
MIT525-AU	1001-942			
MIT1025-UK	1001-943			
MIT1025-US	1001-944			
MIT1025-EU	1001-945			
MIT1025-AU	1001-946			
MIT1525 UK	1002-907			
MIT1525 US	1002-909			
MIT1525 EU	1002-908			
MIT1525 AU	1002-910			
<b>Included Accessories</b>				
Power lead				
USB cable				
PowerDB Lite software				
Product information CD				
<b>Included accessories (5 kV, 10 kV, 15kV)</b>				
3 m lead set, medium size insulated clips (MIT515 and MIT525 only)	1002-531			
3 m leadset x 3, large insulated clips (MIT1025 only)	1002-534			
3m leadset x 3, large 15 kV insulated clips (MIT1525 only)	1002-949			
<b>Optional Accessories 1 kV test lead sets (MIT515, MIT525, MIT1025 only)</b>				
Fused test probe and clip lead set	1002-913			
CONTROL CIRCUIT TEST SET	6220-822			
<b>Optional accessories – 1 kV test lead sets (MIT1525 only)</b>				
Fused test lead set with probes and clips (2 x leads, 1.25m)	1005-265			
Control circuit test lead set (2 x leads, 3m)	1005-264			

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 Registered to ISO 14001-1996 Cert. no. EMS 61597  
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