# MIT480/2 Insulation testers



- Insulation testing up to 500 V and 100 GΩ range in a hand held instrument
- 3 wire connection for A, B and E (Tip, Ring and Earth) connection (New)
- Gated access to 500 V to prevent accidental damage (New)
- Rechargeable options for mains and car charging (New)
- Single range, faster continuity testing from 0.01  $\Omega$  to 1 M $\Omega$  (New)
- Differential measurement capability (New)
- Stabilised insulation test voltage (New)
- 600 V Trms AC and DC voltage measurement
- Test result storage and Bluetooth® downloading
- CAT IV 600 V and IP 54

#### **DESCRIPTION**

The MIT480 mk2 series insulation and continuity testers replace the original MIT480 range and are designed specifically for the Telecommunications and Cable testing markets.

The new units feature a redesigned case, back-stand, and 6 cell battery compartment with separate fuse access.

All instruments are over-moulded for increased protection and achieve an IP54 weatherproof rating.

#### **INSULATION RESISTANCE TESTING:**

The feedback controlled insulation test voltage is now accurate to +2% -0% compared to the original +20%, providing a more accurate test voltage without the risk of over-voltage damage to circuits.

A variable range allows the exact test voltage to be selected from 10 V up to 500 V.

#### **THREE TERMINAL CONNECTION (NEW):**

Three terminal measurement permits the connection of all three test leads for A, B and E (or Tip, Ring and Ground). The measurement pair is selected from the A-B-E (T-R-G) button on the front panel. (New). Selection is confirmed in the display. No disconnection of test leads to measure individual pairs are required.

Alternatively the units can be used as a conventional Two Terminal instrument.

## THE MIT480/2 RANGE (FOR TELECOMMUNICATIONS REFER TO THE MIT480 DATASHEET)

The range consists of two instruments:

MIT481/2 50 V, 100 V, 250 V, 500 V\* + Storage MIT485/2 50 V, 100 V, 250 V, 500 V\* + Storage + Download + recharge ready

\* Gated access – prevents accidental selection

#### **FEATURES INCLUDE:**

- Test voltages (New)
  - 50 V, 100 V, 250 V, and 500 V.
- Variable test voltage (New)
  - Adjustable test voltage from 10 V to 500 V.
- 2% test voltage accuracy
  - The output test voltage is maintained within the tolerance or -0% +2% +2 V
- PASS/FAIL (✓/X) indication (New)
  - PASS or FAIL (✓/※) displayed depending on threshold voltage
- Stabilised test voltage
  - The voltage is feedback controlled to ensure it remains within specification throughout the full test range
- Test voltage display (New)
  - The actual test voltage is displayed on the smaller digital readout, with the measurement on the larger digital display.
- Test range
  - Insulation testing up to 100 G $\Omega$  \* @ 500 V.
- Measurement range displayed (New)
  - The test range is displayed during selection

#### ■ Measurement voltage display

- The measurement voltage is displayed during the test

#### Analogue arc

- The display also features an analogue arc to replicate the response of a moving coil display.

#### ■ Timed testing

- Automatically test to a time limit

#### Silicone leads

- High quality flexible silicone test leads are comfortable to use and prevent measurement errors on G $\Omega$  ranges above 5 G $\Omega$ .

#### ■ Test inhibit

- prevents testing if voltages in excess of 25, 30, 50, 75 or 100 V (set by the user) are detected when making insulation tests. Default is 50 V.

#### Insulation buzzer

- The buzzer can be set to buzz if the insulation resistance is above a user adjustable limit, set in the Setup menu.

#### ■ Test Lock

- Holds insulation test on continuously.
- \* Gated access prevents accidental selection

Test ranges extend from 10 G $\Omega$  to 100 G $\Omega$  depending on test voltage as below:

- 50 Volts up to 10 GΩ
- 100 Volts up to 20 GΩ
- $\blacksquare$  250 Volts up to 50 G $\Omega$
- 500 Volts up to 100 G $\Omega$

#### **CONTINUITY (RESISTANCE) TESTING**

#### ■ Single resistance range (New)

- One range fully automatic from 0.01  $\Omega$  to 1.0  $M\Omega.$ 

#### 200 mA or 20 mA

- Either 200 mA or 20 mA continuity test currents are available. 20 mA test current will considerably increase battery life.

#### **■** Lead null

- Lead resistance compensation (NULL) operates up to 10  $\Omega s$  of resistance.

#### Buzzer

- ON/OFF selected by simple push button.

#### **■** Buzzer limit

- Continuity buzzer limit alarm provides adjustment of the maximum resistance the continuity buzzer sounds. This is adjustable from 1  $\Omega$  to 200  $\Omega$  in 12 steps.

#### ■ Differential measurement (New)

- Allows the difference between two consecutive continuity tests to be measured

#### ■ REN (New)

- Displays the appropriate REN value for the circuit under test.
- Avaliable on 100 V ins or continuity range

#### **VOLTAGE MEASUREMENT**

True RMS voltage measurement to 600 V ac or dc with resolution from 0.1 mV.

- Digital voltage measurement up to 600 V ac/dc
- Analogue arc measurement to 600 V ac/dc
- Automatic display of frequency during voltage measurement.

Input impedance is 10 M $\Omega$  to prevent loading the circuit and reporting low voltages. (**New**)

#### **CURRENT MEASUREMENT**

■ ø - 400 mA AC/DC

#### **DISPLAY**

The display offers a combination of Analogue arc and a dual digital readout:

#### **Analogue arc:**

- Full display width analogue arc.
- Analogue arc display shows essential charge and discharge characteristics not visible on a digital display.
- Single pointer "needle" response is similar to a moving coil meter.

Setup functions allow control of Buzzer limit alarms, Continuity test currents,  $k\Omega/M\Omega/G\Omega.$ 

#### **Dual digital display**

- Large main digital readout for good visibility of all main measurement results
- Second digital display for additional data such as:

Insulation test voltage.

Insulation leakage current.

Supply frequency (when measuring volts).

Differential measurement result display

#### **OTHER FUNCTIONS AND FEATURES**

**Weatherproof** - Every tester is sealed to IP54, providing a weatherproof case to reduce the chances of water ingress, including the battery and fuse compartment.

**Tough housing** - Rubber over moulding combines the tough shock absorbing outer protection with excellent grip, on a strong modified ABS housing, providing an almost indestructible case.

**Batteries** - Battery requirements are 6 AA batteries of either standard Alkaline or Nickel Metal Hydride (NiMH) rechargeable type, providing a minimum of 3000 insulation tests at 500 V.

#### **VARIABLE INSULATION VOLTAGE TESTER \***

The variable mode provides a unique solution for awkward insulation voltage measurement applications. The range option allows an insulation test voltage from 10 V to 500 V in 1 V steps.

<sup>\*</sup> Dependent on model

#### STORAGE AND DOWNLOADING RESULTS

Revised Bluetooth® and pairing procedures have made the MIT480/2s far easier to pair and download data.\* The test results are downloaded to a CSV file which can then be opened as an Excel® spreadsheet.\*

\* Dependent on model

#### **SAFETY**

Designed to be exceptionally safe to use, fast detecting circuitry prevents damage to the instruments if accidentally connected to live circuits or across phases. Specifically, all instruments:

- Meet the international requirements of IEC61010 and EN61557.
- Live circuit detection inhibits insulation testing on circuits above 25, 30, 50, 75 or 100 V default (50 V).
- Live circuit detection and test inhibit on continuity measurements.
- Default display of live circuit voltage on all ranges.
- Detection and inhibit functions even if the protection fuse has failed.
- Suitable for use on CAT IV applications and supply voltages to 600 V.
- \* Dependent on model

#### **FEATURES AND BENEFITS**

- Designed for the Telecommunications and Cable TV markets
- Insulation testing up to 500 V and 100 GΩ range in a hand held instrument
- 3 wire connection for Tip, Ring and Earth connection (New)
- Gated access to 500 V to prevent accidental damage (New)
- Adjustable insulation test voltage from 10 V to 500 V (New)\*
- Differential measurement capability (New)
- New case design with optional magnetic hanging strap (New)
- Rechargeable options for mains and car charging (New)
- Single range, faster continuity testing from 0.01  $\Omega$  to 1 M $\Omega$  (New)
- Feedback controlled insulation test voltage (New)
- Stabilised insulation test voltage (New)
- 600 V Trms AC and DC voltage measurement
- Test result storage and Bluetooth® downloading\*
- Live circuit detection and protection
- CAT IV 600 V and IP 54
- \* Dependent on model

#### **SPECFICATION SUMMARY TABLE**

50 V / 100 V / 250 V / 500 V  Variable 10 V to 500 V  µA button (Leakage)  Lock button on MΩ  REN Telephone count (discharge)  > 500 V Gated Operation  OHMS RANGES  Continuity 0.01 Ω - 10 MΩ  Isc: 200 mA R ≤ 4Ω  Isc 20 mA  Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement  15 - 400 Hz  Input impedance  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  3 3  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)  Switched probe supplied	INSULATION RANGES	MIT481/2	MIT485/2
Variable 10 V to 500 V  µA button (Leakage)  Lock button on MΩ  REN Telephone count (discharge)  > 500 V Gated Operation  OHMS RANGES  Continuity 0.01 Ω - 10 MΩ  Isc: 200 mA R ≤ 4Ω  Isc 20 mA  Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  CAPACITANCE  Capacitance 0.1 nF - 10 µF  Distance by µF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)			_
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Lock button on MΩ  REN Telephone count (discharge)  > 500 V Gated Operation  OHMS RANGES  Continuity 0.01 Ω - 10 MΩ  Isc: 200 mA R ≤ 4Ω  Isc 20 mA  Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)			_
REN Telephone count (discharge)  > 500 V Gated Operation  OHMS RANGES  Continuity 0.01 Ω - 10 MΩ  Isc: 200 mA R ≤ 4Ω  Isc 20 mA  Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  10 MΩ  10 MΩ  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  3 3  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)		•	
(discharge)  > 500 V Gated Operation  OHMS RANGES  Continuity 0.01 Ω - 10 MΩ  Isc: 200 mA R ≤ 4Ω  Isc 20 mA  Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  10 MΩ  10 MΩ  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  3 3  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Lock button on MΩ	•	
OHMS RANGES         Continuity 0.01 $\Omega$ - 10 M $\Omega$ Isc: 200 mA R $\leq$ 4 $\Omega$ Isc 20 mA       <		•	•
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Isc 20 mA  Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Continuity 0.01 $\Omega$ - 10 M $\Omega$	•	
Difference measurement [REL]  Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Isc: 200 mA R ≤ 4Ω	•	
Lead null (<10 Ω)  Voltage Function  AC / DC Volts 600 V  mV AC / DC range  TRMS  Frequency measurement 15 - 400 Hz  Input impedance  CAPACITANCE  Capacitance 0.1 nF - 10 μF  Distance by μF (Open loop)  REN calculation  OTHER FEATURES  Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  Both  Both  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Isc 20 mA	•	
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Current measurement mA AC/DC  PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	REN calculation	•	•
PASS/FAIL on limit alarms  A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	OTHER FEATURES	'	
A/B/E or T/R/G switching  Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Current measurement mA AC/DC		
Number of terminals  On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	PASS/FAIL on limit alarms		_
On board memory  Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	A/B/E or T/R/G switching	•	•
Bluetooth® and software  Recharger ready  AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Number of terminals	3	3
Recharger ready  AA Alkaline or NiMH  Both  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	On board memory	•	_
AA Alkaline or NiMH  CAT IV / 600V  ACCESSORIES  Silicone leads (R,B,G)	Bluetooth® and software		_
CAT IV / 600V  ACCESSORIES Silicone leads (R,B,G)	Recharger ready		_
ACCESSORIES Silicone leads (R,B,G)	AA Alkaline or NiMH	Both	Both
Silicone leads (R,B,G)	CAT IV / 600V		•
	ACCESSORIES	1	1
Switched probe supplied	Silicone leads (R,B,G)		
	Switched probe supplied	•	_

**SPECIFICATION:** 

All quoted accuracies are at +20 °C.

**Insulation** 

**Test voltage** 

Nominal:

MIT481/2 and MIT485/2 50 V, 100 V, 250 V, 500 V

**Insulation accuracy** 

 $\begin{array}{lll} 50 \text{ Volts. } 10 \text{ } G\Omega & \pm 2\% & \pm 2 \text{ digits } \pm 4.0\% \text{ per } G\Omega \\ 100 \text{ Volts. } 20 \text{ } G\Omega & \pm 2\% & \pm 2 \text{ digits } \pm 2.0\% \text{ per } G\Omega \\ 250 \text{ Volts. } 50 \text{ } G\Omega & \pm 2\% & \pm 2 \text{ digits } \pm 0.8\% \text{ per } G\Omega \\ 500 \text{ Volts. } 100 \text{ } G\Omega & \pm 2\% & \pm 2 \text{ digits } \pm 0.4\% \text{ per } G\Omega \end{array}$ 

Service Error: BS EN 61557-2 (2007).

50V,  $\pm 2.0\% \pm 2d$ ,  $100k\Omega - 900k\Omega \pm 10.5\%$ 100V,  $\pm 2.0\% \pm 2d$ ,  $100k\Omega - 900k\Omega \pm 10.3\%$ 250V,  $\pm 2.0\% \pm 2d$ ,  $100k\Omega - 900k\Omega \pm 10.3\%$ 500V,  $\pm 2.0\% \pm 2d$ ,  $100k\Omega - 900k\Omega \pm 10.3\%$ 

**Display range** Analogue: 1 G $\Omega$  full scale

**Resolution** 0.1  $k\Omega$ 

Short circuit/charge current 2 mA +0% -50% to

EN 61557-2 (2007)

Open circuit voltage

insulation

 $-0\% +2\% \pm 2 \text{ V}$ 

**Test current** 1 mA at min. pass value of insulation to a maximum of 2 m

insulation to a maximum of 2 mA

max.

EN61557 Operating range: 0.10  $M\Omega$  to 1.0  $0G\Omega$ 

**Leakage Current** 10% ±3 digits

**Timer control** Countdown timer 60 second

**Note** Above specifications only apply

when high quality silicone leads are being used.

Continuity:

**Continuity range**  $0.01 \Omega \text{ to } 1.0 \text{ M}\Omega$ 

**Continuity accuracy**  $\pm 3\% \pm 2 \text{ digits (0 to 100 }\Omega)$ 

 $\pm 5\% \pm 2$  digits (>100 Ω- 500 kΩ) (>500 kΩ - 1 MΩ unspecified) Service Error: BS EN 61557-4 (2007) -  $\pm$  2.0%, 0.1Ω - 2Ω

± 6.8%

**Open circuit voltage**  $5 V \pm 1 V$ 

**Test current** 200 mA (-0 mA +20 mA)

 $(0.01 \Omega \text{ to } 4 \Omega)$ 

**Lead resistance** Nulling up to 10  $\Omega$ 

Voltage range:

**Voltage range** AC: 10 mV to 600 V TRMS

sinusoidal (15 Hz to 400 Hz) DC: 10 mV to 600 V **Volt range accuracy** AC:  $\pm 2\% \pm 2$  digits

DC:  $\pm 2\% \pm 2$  digits

Service Error: BS EN 61557-1 (2007) - ± 2.0% ± 2d, 0V - 300Vac/dc ± 5.1%

**Waveform** Unspecified range:

0 – 10 mV (15 to 400 Hz)

For non-sinusoidal waveforms additional specifications apply: Non-sinusoidal waveforms: ±3% ± 2 digits >100 mV

to 600 V TRMS

 $\pm 8\% \pm 2$  digits 10 mV to

100 mV TRMS

15 Hz - 400 Hz

**Default voltmeter** Operates at > 25 volts ac or dc on

any range except OFF

Frequency:

**Frequency measurement** 

range

**Frequency measurement**  $\pm 0.5\% \pm 1 \text{ digit}$ 

accuracy

Capacitance measurement:

**Capacitance range** 0.1 nF to 10 μF

Accuracy  $\pm 5.0\% \pm 2 \text{ digits (1 nF-10 } \mu\text{F)}$ Cable coefficient  $\pm 40 \text{ n F/ km to } 70 \text{ n F/ km}$ 

**Unit of measure:** 50nF / km

Result storage:

Storage capacity >1000 test results

Data download Bluetooth® wireless
Bluetooth® Class II

Range up to 10 m

**Power supply:** 

**Power supply** 6 x 1,5 V cells

type IEC LR6 (AA, MN1500, HP7,

AM3 R6HP) Alkaline

 $6 \times 1,2 \text{ V NiMH rechargeable cells}$ 

may be used.

**Battery life** 3000 insulation tests with duty

cycle of 5 sec ON /55 sec OFF @

500 V into 500 k $\Omega$ 

Charger (Optional): 12-15 V dc

(accessory interface)

**Dimensions** 228 mm x 108 mm x 63 mm

(9.00 in x 4.25 in x 2.32 in)

800 g Weight

Weight (instrument and

case)

1.75 kg (3.86 lb)

Use only 2 x 500 mA (FF) 1000 **Fuse** 

V 32 x 6 mm ceramic fuse of high breaking capacity HBC 30 kA minimum. Glass fuses MUST

**NOT** be fitted.

**Safety protection** The instruments meet

EN 61010-1 (1995) to 600V phase to earth, Category IV. Refer to safety warnings supplied. In accordance with IEC 61326

**EMC** including amendment No.1

<0,1% per °C up to 1  $G\Omega$ 

**Temperature co-efficient** <0,1% per °C per GΩ

above 1  $G\Omega$ 

**Environmental** 

**Operating temperature** range and humidity

-10 to +55 °C

90% RH at 40 °C max.

Storage temperature range -25 to +70 °C

**Calibration temperature** +20 °C Maximum altitude 2000 m IP 54 **IP** rating

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<b>Description</b>	Order Code	INFORMATION  Description
Language group 1 - English - French - Germa		Included accesso
MIT481/2 - 3 terminal 50 V to 500 V +		Red/Black silicone
storage and recall	1004-741	SP5 Switched pro
MIT485/2 - as MIT481/2 + Bluetooth® download	1004-742	Owners Informati
		Batteries 6 x AA A
Language group 2 - English - Spanish - Italia	n - Portuguese	Hard carry case
MIT481/2 - 3 terminal 50 V to 500 V +	rortuguese	-
storage and recall	1006-752	0
MIT485/2 - as MIT481/2 + Bluetooth® download	1006-758	Optional access
		Mains Charger kit
Language group 3 - English - Arabic - Turkish	n - French	12 V DC battery o
MIT481/2 - 3 terminal 50 V to 500 V +	· · · · · · · · · · · · · · · · · · ·	Switched probe S
storage and recall	1006-753	Test lead set and
MIT485/2 - as MIT481/2 + Bluetooth® download	1006-759	2 wire 500 mA fu Batteries (6 x NiM
		-
Language group 4 - English - Czech - Slovak	- Polish	-
MIT481/2 - 3 terminal 50 V to 500 V +	1006 754	
storage and recall MIT485/2 - as MIT481/2 + Bluetooth® download	1006-754	-
WII1463/2 - ds WII1461/2 + Diuetootii dowiiioad	1006-760	-
Language group 5 - English - Chinese - Japar	nese - Korean	
MIT481/2 - 3 terminal 50 V to 500 V +		
storage and recall	1006-755	
MIT485/2 - as MIT481/2 + Bluetooth® download	1006-761	-
Language group 6 - English - Hungarian - Ro	manian -	-
Russian		-
MIT481/2 - 3 terminal 50 V to 500 V + storage and recall	1006-756	
MIT485/2 - as MIT481/2 + Bluetooth® download	1006-762	
	egian - Swedish	_
Language group 7 - English - Finnish - Norwo		
Language group 7 - English - Finnish - Norwo MIT481/2 - 3 terminal 50 V to 500 V + storage and recall	1006-757	

Description	Order Code
Included accessories	
Red/Black silicone test leads with prods and	d clips
SP5 Switched probe (not MIT400/2)	
Owners Information CD	
Batteries 6 x AA Alkaline	
Hard carry case	
Optional accessories	
Mains Charger kit (MIT485/2 only)	1007-464
12 V DC battery charger (requires mains ch	narger kit) 1004-183

1007-157

1002-001

1002-015

1002-735

Switched probe SP5

Batteries (6 x NiMH)

Test lead set and crocodile clips

2 wire 500 mA fused test lead set