Megger.

MFT1800 series Multifunction Tester



- Simple colour-coded test selection and large clear backlit display for ease of use
- Two and three wire non-trip loop testing for RCD protected circuits
- Internal memory and Bluetoothe communications
- Type-B RCD and 3-phase RCD testing for industrial applications with no Earth
- 3-terminal earth test and stakeless testing for spike resistance measurement
- EN61010 CATIV safety ratings and tough IP54 case

DESCRIPTION

The MFT1800 range consists of 3 instruments designed for testing low voltage electrical installations to IEC 60364. They provide all the tests required to complete the necessary electrical certification for industrial, commercial and domestic fixed wiring installations, including:

System voltage and frequency measurement (TRMS)*.

Insulation test at 100 V*, 250 V, 500 V and 1000 V* Including input protection against live circuits up to 600 V even when

insulation test is locked-on

■ Continuity resistance at 200 mA or 15 mA*

Automatic - no need to press TEST so leaving both hands free to hold probes.

Resistance range up to 100 kΩ

With fast continuity buzzer and selectable thresholds

■ Non-trip loop test

Earth loop test

2 and 3 wire non-trip range

2 wire Hi current including phase to phase

Prospective fault current measurement

Up to 20 kA

■ RCD testing including:

Type AC, A, S, B* and programmable RCDs 1/2 x I, 1 x I, 2 x I and 5 x I

3-phase RCDs*

Fast ramp test

Auto-test routine

Fault (Touch) voltage display

Earth testing

2-pole,

3-pole

ART

Stakeless techniques

All instruments are IEC 61010 CAT IV 300 V rated for connection to low voltage systems with no protective device, so safe for connection anywhere on the system up to the source transformer without risk of damage from large transient spikes.

The unique modern styling allows it to be operated while stood on the floor, a ladder-shelf or platform, hung around the neck or handheld. Dual TEST and LOCK buttons - one pair at each end - make the testers easy to operate with either the left or right hand.

Quick to pick up and use, the rotary controls are colour coded to make range selection easy and fast. They also reduce the chance of using the wrong function or range. The large crystal clear backlit display uses the patented Megger digital/analogue arc, providing indication of fluctuating readings while the dual digital readout shows precise values of key measurements simultaneously with the test parameters, such as the output voltage on insulation testing as well as the resistance value in $M\Omega.$

Visible and audible safety warnings are paramount when testing high-energy systems, and the MFT1800 range includes full input protection and safety warnings when a hazardous voltage is present. If live voltages exist on a circuit during insulation or continuity testing, the voltage is displayed on the screen. If this voltage exceeds a safe level, further testing is inhibited and a warning beep sounds.

The MFT1835 features internally rechargeable batteries and charger with a charge time of less than 4 hrs, so reducing the cost of ownership.

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Fully compliant with all requirements of IEC 60364 derived standards including VDE 0100 and BS 7671, the new MFT includes all the latest measurement technology in a lightweight compact design and fully protected and usable on single phase and 3 phase installations.

New measurement functions include two and three wire non-trip loop test technology for RCD protected circuits, comprehensive testing of RCDs including type B and the latest clamp-on techniques for earth testing.

The MFT1835 includes built in memory and Bluetooth₀ communications for downloading of memory using Megger Download Manager (supplied) for simple form filling of test results using the optional Megger PowerSuite₀ software.

The new MFT1800 series has been designed for tough environments and ultimate reliability. Features include a rubber over mould for extra protection and grip, IP54 protection against dust and water and an EN61010 CAT IV safety rating. Its class leading input protection ensures the new MFT can withstand accidental misuse and voltage transients when other testers can't.

All this in an intuitive and easy to use instrument with no hidden menus or complicated screens. Tests are easily selected using the colour coded rotary switches with results clearly displayed on the high contrast dual measurement backlit display.

Included with the instrument are a standard 3-wire leadset and a mains test lead, a switched probe for fast and easy testing, a full 12-month calibration certificate and warranty upgradeable to 3 years. The MFT is supplied in a robust moulded case with plenty of additional space for optional extras like a few tools and the earth electrode test kit, comprising 2 spikes and 3 long test leads.

- * model dependant
- ** requires optional accessory

MFT1815 MFT1825 MFT1835

Insulation ranges			
100 V			•
250 V, 500 V			
1000 V		-	
Test voltage display	•	•	•
Adjustable buzzer threshold		-	•
Continuity and resistance ranges			
200 mA test		•	
15 mA test		•	
Adjustable buzzer threshold		•	
RCD tests			
1/2 x I, 1 x I, 5 x I RAMP RCD test		•	
2 x I			
Fast ramp		•	

Auto RCD test Type A & AC RCDs Type B (pure DC) RCDs Programmable RCD 3-phase RCD (no Earth) 10 mA RCD 30 mA, 100 mA, 300 mA, 500 mA RCD 1000 mA RCD Earth test 2-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L-L & L-N 50 V to 480 V (L-N) 50 V to 280 V (L-PE) Phase to Phase tests (L-L) PSCC & PFC (20kA max) Touch-voltage display (0 V-253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V IP54		MFT1815	MFT1825	MFT1835
Type B (pure DC) RCDs Programmable RCD 3-phase RCD (no Earth) 10 mA RCD 30 mA, 100 mA, 300 mA, 500 mA RCD Earth test 2-pole** 3-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L~L & L~N 50 V to 480 V (L~N) 50 V to 280 V (L~PE) Phase to Phase tests (L~L) PSCC & PFC (20kA max) Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetoth download CAT IV 300 V	Auto RCD test		•	•
Type B (pure DC) RCDs Programmable RCD 3-phase RCD (no Earth) 10 mA RCD 30 mA, 100 mA, 300 mA, 500 mA RCD 1000 mA RCD Earth test 2-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L~PE 2-wire high current L~L & L~N 50 V to 480 V (L~N) 50 V to 280 V (L~PE) Phase to Phase tests (L~L) PSCC & PFC (20kA max) Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Type A & AC RCDs			•
Programmable RCD 3-phase RCD (no Earth) 10 mA RCD 30 mA, 100 mA, 300 mA, 500 mA RCD 1000 mA RCD Earth test 2-pole** 3-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L-L & L-N 50 V to 480 V (L-N) 50 V to 280 V (L-PE) Phase to Phase tests (L-L) PSCC & PFC (20kA max) Touch-voltage display (0 V-253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Type S RCDs			•
3-phase RCD (no Earth) 10 mA RCD 30 mA, 100 mA, 300 mA, 500 mA RCD 1000 mA RCD Earth test 2-pole** 3-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L-L & L-N 50 V to 480 V (L-N) 50 V to 280 V (L-PE) Phase to Phase tests (L-L) PSCC & PFC (20kA max) Touch-voltage display (0 V-253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Type B (pure DC) RCDs		•	•
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30 mA, 100 mA, 300 mA, 500 mA RCD Earth test 2-pole** 3-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L-L & L-N 50 V to 480 V (L-N) 50 V to 280 V (L-PE) Phase to Phase tests (L-L) PSCC & PFC (20kA max) Touch-voltage display (0 V-253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	3-phase RCD (no Earth)		•	•
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Earth test 2-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L~L & L~N 50 V to 480 V (L~N) 50 V to 280 V (L~PE) Phase to Phase tests (L~L) PSCC & PFC (20kA max) Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V		•	•	•
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3-pole** 3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L-PE 2-wire high current L~L & L~N 50 V to 480 V (L~N) 50 V to 280 V (L~PE) Phase to Phase tests (L~L) PSCC & PFC (20kA max) Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Earth test			
3-pole ART technique** Stakeless method** Loop testing 2-wire and 3-wire non-tripping L~PE 2-wire high current L~L & L~N 50 V to 480 V (L~N) 50 V to 280 V (L~PE) Phase to Phase tests (L~L) PSCC & PFC (20kA max) Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	2-pole**			•
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PSCC & PFC (20kA max) Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V		•	•	•
Touch-voltage display (0 V~253 V) Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Phase to Phase tests (L~L)	•	•	-
Other features Supply measurement True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	PSCC & PFC (20kA max)		•	
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True RMS Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Other features			
Current measurement** Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Supply measurement		•	-
Phase rotation Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	True RMS			•
Backlight Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Current measurement**		•	-
Auto power-down Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Phase rotation	•	•	-
Calibration certificate supplied Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Backlight	•	•	•
Rechargeable batteries/charger included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Auto power-down		•	•
included 3-year warranty (on registration) Onboard memory with Bluetooth download CAT IV 300 V	Calibration certificate supplied	•	•	•
Onboard memory with Bluetooth download CAT IV 300 V		•	•	•
Bluetooth download CAT IV 300 V	3-year warranty (on registration)	•	•	•
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IP54 • •	CAT IV 300 V			
	IP54	•	•	•

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SPECIFICATIONS

Insulation test

Output voltage -0% +20% at rated load or less Voltage display $\pm 3\% \pm 3$ digits $\pm 0.5\%$ of rated voltage

Short circuit current 1.5 mA nominal test current

Test current on load 1 mA at min pass values of insulation

Insulation accuracy

>500 M Ω ±10% ±4 digits

250 Volts $10 \ k\Omega \sim 250 \ M\Omega \qquad \pm 3\% \ \pm 2 \ digits$

>250 MΩ ±10% ±4 digits

100 Volts $10 \ k\Omega \sim 100 \ M\Omega \qquad \pm 3\% \ \pm 2 \ digits$

 $>100 M\Omega \pm 10\%$ $\pm 4 digits$

Resistance and continuity

 $0.01~\Omega \sim 99.9~\Omega$ $\pm 2\% \pm 2$ digits $100~\Omega \sim 99.9~k\Omega$ $\pm 5\% \pm 2$ digits Open circuit voltage $5~V \pm 1~V$ Test current $(0~\Omega \sim 2~\Omega)$ $205~mA \pm 5~mA$

15 mA ±5 mA (user selectable)

Loop test

Live to earth supply $48 \text{ V} \sim 280 \text{ V} (45 \text{ Hz} \sim 65 \text{ Hz})$ Live to live supply $48 \text{ V} \sim 500 \text{ V} (45 \text{ Hz} \sim 65 \text{ Hz})$

L-N/L-L tests $\pm 5\% \pm 3$ digits

L-E tests*

0.1 Ω ~ 39.9 Ω ±5% - ±5 digits ± noise margin

 $40.0~\Omega \sim 999~\Omega$ $\pm 10\%~\pm 5~ digits$ Display range $0.01~\Omega \sim 999~\Omega$

Live to earth PFC range 20 kA Live to live PSCC range 20 kA

* Reference conditions apply.

For test environments see service data.

RCD tests

Supply up to 100 mA $48 \text{ V} \sim 480 \text{ V} (45 \text{ Hz} \sim 65 \text{ Hz})$

Supply up to 1 A $48 \text{ V} \sim 280 \text{ V}$

RCD type Type AC, A, S Type B (pure dc)

No trip test $10\% \sim -0\%$ (1/2xl)

Trip test +0% ~ +10% (1xl, 2xl & 5xl)

Ramp test

Touch voltage +5% +15% ±0.5 V (0 ~ 253 V)

Trip time $\pm 1\% \pm 1$ ms
Trip current $\pm 3\%$

Step increments

VAR 10 mA \sim 50 mA 1 mA steps (variable RCD selection) 50 mA \sim 500 mA 5 mA steps

500 mA ~ 1000 mA 10 mA steps

Supply measurement

Voltage 10 V ~ 600 V (15 ~ 400 Hz) True RMS

±3% ± 1 V ±2 digits

Phase rotation

L1-L2-L3 & L1-L3-L2

indication

Frequency 15 Hz \sim 99 Hz \pm 0.5% \pm 1 digit

100 Hz ~ 400 Hz ±2.0% ±2 digits

Frequency resolution 0.1 Hz

Power supply

MFT1815 & MFT1825: IEC LR6 type AA alkaline

(6 cells - supplied)

MFT1835: 1.2 V NiMH (rechargeable 6 cells supplied)

Mains charger for on-board re-charging (4 hours typical) 12 V car charger (cigar lighter

lead - optional)

Earth / ground test

Resolution - 0.01 Ω

Current - 0.45 mA or 4.5 mA

Noise rejection 20 V pk/pk (7 V rms).

Max probe resistances Rp & Rc

100 kΩ @ 50 V

5 kΩ @ 25 V

2 & 3 pole method (0.01 $\Omega \sim 1.999 \text{ k}\Omega$)

±2.0% ±5 digits

ART method $(1.00 \Omega \sim 1.999 k\Omega)$

±5.0% ±5 digits

Stakeless method $(1.00 \Omega \sim 199 \Omega)$

±7.0% ±5 digits

Current

(via optional clamp meter)

±5.0% ±3 digits.

Range 0.1 mA to 200 A ac

Resolution 0.1 mA

MV sensor input

(MFT1835)

including temperature (third party module)

±1.0% ±2 digits

Range - 0.0 mV to ±199.9 mV dc

Resolution 0.1 mV

Data storage

(MFT1835)

Capacity 1000 results

Bluetooth communication

DESIGN STANDARDS

Safety IEC 61010-1:2010

IEC 61010-30:2010 IEC 61010-031:2008

600 V CAT III / 300 V CAT IV (Max Phase to Phase 600 V) IEC 61557:2007 parts 1 to 10

EMC IEC61326 edition 2 location class B

ENVIRONMENTAL

Operating temperature range and humidity

10 °C ~ +55 °C 90% R.H. at +40 °C max

Temperature (storage)

-25 °C ~ +70 °C

Maximum altitude

2000 m

Weight (instrument and case)

1 kg (with batteries, excluding case)

Dimensions (instrument and case)

150 x 85 x 235 mm

IP rating IP54

Calibration temperature

+20 °C

TEMPERATURE EFFECTS

Temperature co-efficient

<0,1% per °C

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	ORDERING	INFORMATION
Description	Order Code	Description
MFT1815-AU	1005-270	Included accessorie
MFT1815-CH-DE/FR	1002-402	Printed guickstart
MFT1815-SC-DE/NL/EN	1002-403	Full user guide on
MFT1815-SC-FR/ES	1002-405	Calibration certific
MFT1825-AU	1002-406	Switched probe SP
MFT1825-CH-DE/FR	1002-407	Neck strap - Megg
MFT1825-SC-DE/NL/EN	1002-408	3 Wire lead set wit
MFT1825-SC-FR/ES	1002-410	Euro mains test lea
MFT1835-AU	1002-411	AU/NZ plug test le
MFT1835-CH-DE/FR	1002-620	AC battery charge
MFT1835-DE+P'KAL Manager software	1002-414	
MFT1835-SC-DE/NL/EN	1002-415	Optional accessori
MFT1835-SC-FR/ES	1002-417	Soft carry case wit
		 Fused 10 A test lea

Description	Order Code
Included accessories	
Printed quickstart guide	
Full user guide on CD	
Calibration certificate	
Switched probe SP5	1007-157
Neck strap - Megger embroidered	2001-509
3 Wire lead set with prods and clips	1001-991
Euro mains test lead SIA45 (not AU)	2000-674
AU/NZ plug test lead (AU only)	6220-828
AC battery charger (MFT1835 only)	1002-736
Optional accessories	
Soft carry case with lead/document pouch	6420-143
Fused 10 A test lead set (red/blue/green) with prods and clips	1001-975
ETL30 Extension Test Lead 30 m	1000-215
ETL50 Extension Test Lead 50 m	1000-217
Cigar lighter adapter for battery charging.	6280-332
Earth electrode kit	1001-810
3 Pole Earth Test Kit	6210-160
ETK30 (3 Pole Earth Test Kit)	1010-176
MCC1010 Current measuring clamp	1010-516
MVC1010 Voltage clamp	1010-518

