

## 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 Bluetooth® 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 hand-held. 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 MΩ.

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.

## MFT1800 Series Multifunction tester

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.

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 Bluetooth® communications for downloading of memory using Megger Download Manager (supplied) for simple form filling of test results for certification software such as Megger CertSuite ([certsuite.info](http://certsuite.info)).

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
<b>Insulation ranges</b>			
100 V			■
250 V, 500 V	■	■	■
1000 V	■	■	■
Test voltage display	■	■	■
Adjustable buzzer threshold		■	■
<b>Continuity and resistance ranges</b>			
200 mA test	■	■	■
15 mA test		■	■
Adjustable buzzer threshold	■	■	■
<b>RCD tests</b>			
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 S 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		■	■
<b>Earth test</b>			
2-pole**		■	■
3-pole**		■	■
3-pole ART technique**			■
Stakeless method**			■
<b>Loop testing</b>			
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)	■	■	■
<b>Other features</b>			
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	■	■	■



# MFT1800 Series

## Multifunction tester

### 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	Order Code
MFT1815-AU	1005-270	Included accessories	
MFT1815-CH-DE/FR	1002-402	Printed quickstart guide	
MFT1815-SC-DE/NL/EN	1002-403	Calibration certificate	
MFT1815-SC-FR/ES	1002-405	Switched probe SP5	1007-157
MFT1825-AU	1002-406	Neck strap - Megger embroidered	2001-509
MFT1825-CH-DE/FR	1002-407	3 Wire lead set with prods and clips	1001-991
MFT1825-SC-DE/NL/EN	1002-408	Euro mains test lead SIA45 (not AU)	2000-674
MFT1825-SC-FR/ES	1002-410	AU/NZ plug test lead (AU only)	6220-828
MFT1835-AU	1002-411	AC battery charger (MFT1835 only)	1002-736
MFT1835-CH-DE/FR	1002-620	Optional accessories	
MFT1835-DE+P'KAL Manager software	1002-414	Soft carry case with lead/document pouch	6420-143
MFT1835-SC-DE/NL/EN	1002-415	Fused 10 A test lead set (red/blue/green) with prods and clips	1001-975
MFT1835-SC-FR/ES	1002-417	ETL30 Extension Test Lead 30 m	1000-215

### SALES OFFICE

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### MFT1800\_DS\_en\_V21

www.megger.com  
ISO 9001  
The word 'Megger' is a registered trademark

**Megger**®

# Service van EURO-INDEX

**EURO-INDEX verleent service op alle meetinstrumenten uit haar leveringspakket en biedt de faciliteiten, kennis en hoog gekwalificeerd personeel voor (preventief) onderhoud, reparatie en kalibratie van uw meetinstrumenten.**

## Geautoriseerd Service Centrum .....

EURO-INDEX is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum.

Dit betekent dat uw instrumenten worden behandeld door goed opgeleid en kundig personeel, dat beschikt over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen gebruikt en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

## Service- en kalibratielaboratorium .....

EURO-INDEX beschikt over een bijzonder modern service- en kalibratielaboratorium met RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor verschillende grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



## KWS® .....

KWS is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie. Veel zaken worden voor u geregeld, zodat u zonder zorgen gebruik kunt maken van uw meetinstrumenten. De kosten zijn laag en voorspelbaar.

## Digitale toegang tot uw kalibratiecertificaten met Mijn KWS .....

Via het Mijn KWS webportal heeft u altijd en overal toegang tot uw kalibratiecertificaten en gerelateerde documenten.

## Verhuur van meetinstrumenten .....

- Uitgebreid assortiment
- Deskundig advies
- Instrumenten worden geleverd met accessoirepakket en herleidbaar kalibratiecertificaat

## EURO-INDEX Academy .....

- Producttrainingen (individueel en klassikaal)
- Seminars
- Demonstratie- en instructievideo's

**Bekijk de video op ons YouTube kanaal en ontdek alles over KWS**



Servicebalie



Kalibratie rookgasanalyse



Seminars en workshops



Kalibratie thermografie

Wijzigingen voorbehouden EURO-INDEX® VL 18001

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Geaccrediteerde scope zie [www.rva.nl](http://www.rva.nl)

