

ELECTRICAL TESTING
Industrial maintenance catalogue

Megger[®]



EN
ENGLISH

Keeping the Power on

Megger designs and manufactures more than 300 electrical test instruments and related software for testing a wide range of electrical assets. Our products contain many additional safety features to protect the user, the assets being tested, and to fail safely in the event of improper use. We use touch screen, prompts and automated routines to make testing easy and fast. We recognise that equipment can get tough treatment in the field, so all our products have high IP ratings and robust enclosures.

Megger's comprehensive range of electrical test equipment is ideal for solving problems encountered in industrial environments, including :

- **Insulation testing from low to high voltage AC and DC**
- **Motor and generator on-line and off-line testing**
- **Cable fault location and diagnostics**
- **Instrument and power transformer testing**
- **Protection, relay, and circuit breaker testing**
- **Water leak detection and monitoring**

We have a long history of innovation that comes from working closely with our customers to solve the problems of today and tomorrow. Indeed, Megger was founded in 1889 when the British engineer Sidney Evershed invented the first megohmmeter. Megger continued to pioneer electrical testing inventions and by the early 1900's, had invented the AVO, the first analogue multimeter testing amps, volts, and ohms and the origin of the AVO International company name.

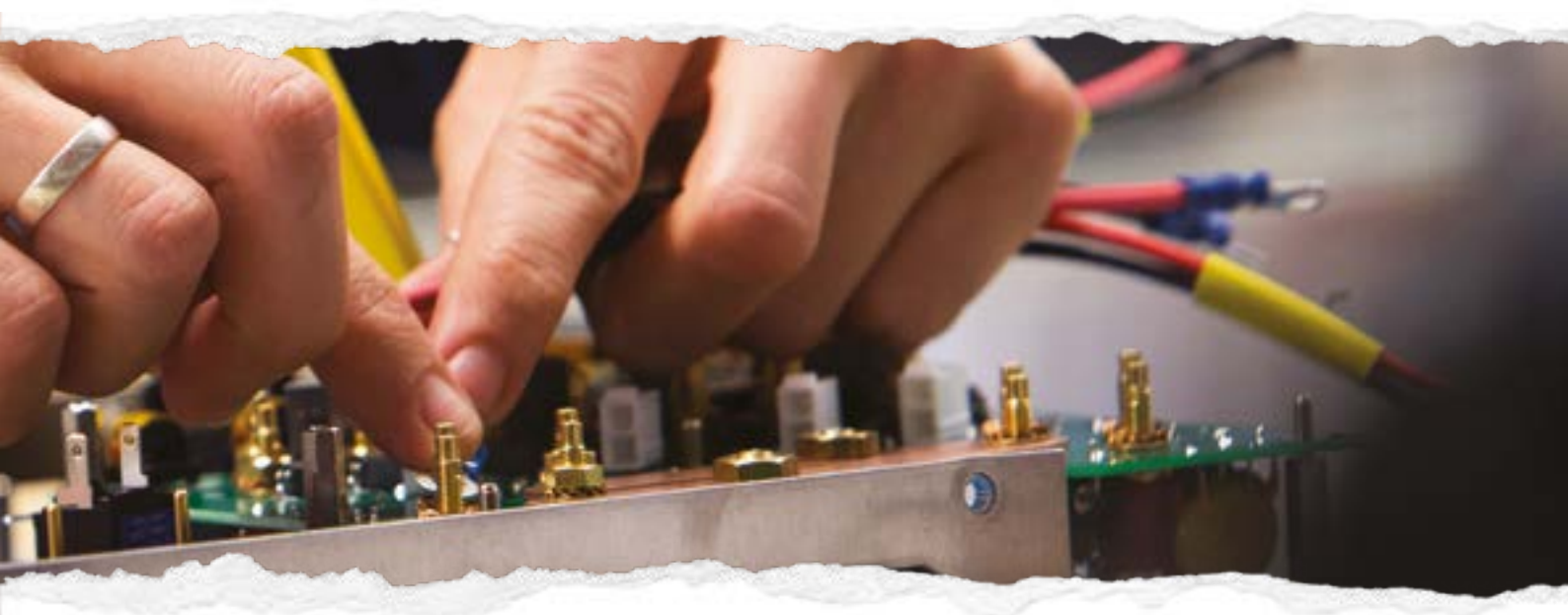
Since these early days, Megger has continued to adapt to changing technology and industry demands with many inventions and patents along the way. We have also expanded the range of applications we support through acquisitions. These include :

- **Progamma (Sweden) in 2005 for transformer and protection testing**
- **SebaKMT (Germany) in 2012 for cable fault location and diagnostics**
- **Baker Instruments (USA) in 2018 for motor and generator testing**
- **Power Diagnostics (Germany) in 2019 for partial discharge testing**

Megger's highly skilled application engineers, along with our global network of distributors and authorised service and repair centres, are there to help you with your buying decisions and to offer technical support during operation. We also offer a wide range of training opportunities, from introductory to advanced levels (visit www.megger.com for more details) to help you keep the power on.

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Insulation testing

Insulation testers are Megger's best known products worldwide. In the 19th century, when the first cities became electrified in the course of the industrial revolution, Megger constructed the world's first 'hand dynamo'. This patented product generated enough voltage to measure resistances in the megohm range. Today, you can experience the exceptional accuracy, repeatability, and reliability of Megger's insulation testers. Indeed, thanks to Megger's advanced guard terminal technology, you can avoid leakage currents that can distort results, giving you accurate insulation measurements quickly and efficiently.

MIT410/2

- Single range, faster continuity testing from 0.01 Ω to 1 M Ω
- Adjustable insulation test voltage from 10 V to 1000 V
- Rechargeable options for mains and car charging
- Insulation testing up to 1000 V and 200 G Ω range
- Designed for Electrical and Industrial testing
- 600 V Trms AC and DC voltage measurement
- Live circuit detection and protection
- CAT IV 600 V and IP54

Included accessories : Red / black silicone test leads with probes + clips, SP5 remote switch probe (not MIT400/2), batteries 6 x AA alkaline, hard carry case, calibration certificate.



MIT2500

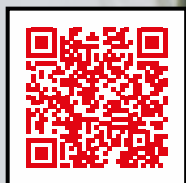
- Insulation testing up to 2.5 kV and 200 G Ω range in a hand held instrument
- Polarisation Index (PI) and Dielectric Absorption Ratio (DAR)
- Fully compatible with CertSuite Asset test reporting software
- Single range, faster continuity testing from 0.01 Ω to 1 M Ω
- Adjustable insulation test voltage from 50 V to 2500 V
- Rechargeable options for mains and car charging
- Guard terminal for high resistance accuracy
- Stabilised insulation test voltage
- CAT IV 600 V applications

Included accessories : Red / black / blue silicone test leads with prods and clips 2.5 kV, red / black / blue silicone test leads with clips, batteries 6 x AA alkaline, carry case.



UNCOVER THE FACTS

Learn more about industrial multi tester



MIT515 MIT525

- Unique dual-case design – additional user protection
- Safety rated up to CAT IV 1000 V to 3000 m
- Advanced memory with time / date stamp
- 5 kV Insulation Resistance Tester supply
- Operates from battery or AC mains
- Compatible with CertSuite Asset
- Rapid charge Li-ion battery
- PI predictor function (PIp)
- Measures up to 10 TΩ



BM5200

- 1 TΩ, 1.4 mA, 5 kV digital insulation tester with digital and analogue display
- Insulation (InS), Polarization Index (PI) and variable timed test (t) modes
- Five test ranges; 250 V, 500 V, 1000 V, 2500 V, and 5000 V
- Selectable DC or AC (including frequency) voltmeter functions
- Guard terminal to shunt surface leakage currents
- CATIII 600 V safety rating

Make in India : 100% sourced and manufactured in India



BM5500

- 1 TΩ, 1.4 mA, 5 kV digital insulation tester with digital and analogue display
- Insulation (InS), Polarization Index (PI) and variable timed test (t) modes
- Five test ranges; 250 V, 500 V, 1000 V, 2500 V, and 5000 V
- Selectable DC or AC (including frequency) voltmeter functions
- Guard terminal to shunt surface leakage currents
- CATIII 600 V safety rating

Make in India : 100% sourced and manufactured in India



IMT100

Industrial multi tester

- Insulation resistance and surface leakage current detection
- AC voltage, phase rotation, and frequency
- Rechargeable batteries and charger
- 4 wire low resistance bonding test
- Multipurpose industrial carrycase
- Environmental protection to IP54
- 2 wire continuity and diode test
- Data storage and management
- DC voltage and polarity test
- Full colour graphic display
- CAT III 600 V up to 3000 m



Insulation test range

■ Function □ Option ▲ Rechargeable batteries possible

	MIT400/2	MIT410/2	MIT410/2	MIT430/2	MIT481/2	MIT485/2	MIT2500	MIT515	MIT525	MIT1025	MIT1525
Test voltages											
10 kV / 15 kV										■	■
5 kV								■	■	■	■
2.5 kV							■	■	■	■	■
1000 V	■	■	■	■	■	■	■	■	■	■	■
500 V	■	■	■	■	■	■	■	■	■	■	■
250 V	■	■	■	■	■	■	■	■	■		
50 V / 100 V		■	■	■	■	■	■				
Insulation - Test methods											
Polarisation index		■	■	■	■	■	■	■	■	■	■
Dielectric absorption ratio		■	■	■	■	■	■		■	■	■
Step voltage / ramp									■	■	■
Dielectric discharge									■	■	■
Further tests											
Continuity check	■	■	■	■	■	■	■				
Frequency measurement		■	■	■	■	■	■				
Capacitance measurement			■	■	■	■	■	■	■	■	■
Voltage measurement	■	■	■	■	■	■	■	■	■	■	■
Memory and interfaces											
Data memory			■	■	■	■	■		■	■	■
USB interface									■	■	■
Bluetooth® interface				■		■	■				
Supply											
Power supply									■	■	■
Rechargeable batteries	▲	▲	▲	▲	▲	▲	▲	▲	■	■	■
Security											
CAT IV / 600 V	■	■	■	■	■	■	■	■	■	■	■
Calibration certificate included	■	■	■	■	■	■	■	■	■	■	■
Software included				■			■				
Power DB Lite									■	■	■
Power DB									□	□	□
Download manager				■	■		■		■	■	■
Guard technology							■	■	■	■	■

Low resistance testing

DLRO10X

Digital micro-ohmmeter

DLRO10X is fully automatic instruments, selecting the most suitable test current up to 10 A DC to measure resistance from 0.1 $\mu\Omega$ to 2000 Ω , on one of seven ranges. The measurement is updated every 3 seconds until the circuit is broken.

For users who desire more control over the measurement process, DLRO10X uses a menu system controlled by a two-axis paddle to allow the user to manually select the maximum test current. DLRO10X is fitted with RS232 communications that will allow results to be downloaded in real time or stored for later retrieval.

DLRO10X also adds real time download of results and on board storage for later download to a PC.



DLRO10HD DLRO10HDX

Dual power 10 A micro-ohmmeter with results storage and downloading

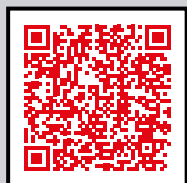
Augmenting Megger's DLRO10 and 10X range the DLRO10HD and HDX combine ultimate simplicity of operation with a rugged IP65 case designed for stable ground and bench operation. These units are powered from either rechargeable battery or mains power making it suitable for continuous testing in production line / repetitive use environments. Rotary switch controls are simple and easy to operate in all weather conditions and with gloved hands. A large, clear, backlit LCD display is easy to read from a distance.

The DLRO10HDX provides significantly enhanced compliance and is capable of delivering 10 A into measurements up to 250 m Ω and 1 A into measurements up to 2.5 Ω . The duration of each test may be up to 60 seconds.



UNCOVER THE FACTS

Learn more about
low resistance testing



Low resistance testing

DLRO10

10 A digital low resistance micro-ohmmeter

- Automatically detects continuity in potential and current connections
- Multiple operating modes including fully automatic
- Auto current reversal cancels standing emfs
- Interchangeable test lead terminations



DLRO2

2 A low resistance ohmmeter

- < 600 V active protection against inadvertent live connections without blowing a fuse
- Ideal for outdoor use with protection against dust and moisture to IP54
- Industry standard safety rated at CAT III 600 V / CAT IV 300 V
- Use long leads at 1 A without compromising test speed
- Safely test the resistance of inductive loads at 1 A
- New difference meter for quick data comparisons



KC-C Reels

DLRO100

100 A portable micro-ohmmeter

- Remote operation, Bluetooth® & asset / result tagging (100HB variants)
- IP54 for protection against dust and moisture whilst testing
- CAT IV 600 V AC / 500 V DC for safe operation
- Smooth DC Output for circuit breaker testing
- High noise immunity for stable readings



DLRO200

200 A micro-ohmmeter

- On board memory for up to 300 test results and notes
- Test currents from 10 A to 200 A DC
- Small and weighs less than 15 kg
- 0.1 $\mu\Omega$ best resolution



		DLRO2	DLRO10HDX	DLRO10HD	DLRO10X	DLRO10
Nominal current		Up to 2 A	Up to 10 A	Up to 10 A	Up to 10 A	Up to 10 A
No. of ranges with power limited to 0.25 W			6	6	6	6
No. of higher power ranges			2	2		
Display		LCD Backlit	LCD Backlit	LCD Backlit	LCD Backlit	
Results storage and download		■	■		■	
Power supply	Mains	■	■	■	optional	optional
	Rechargeable battery	■	■	■	■	■
Weight		0.905 kg	6.7 kg	6.7 kg	2.6 kg	2.6 kg

Megger has launched a new range of duplex test leads to give you more flexibility. Get one set of tester end leads and attach any of the selection of probes and clips to the tough duplex connector, one of which can house an LED indicator. Used with the DLRO10 series, the indicator will warn you about connections to hazardous live voltages, will indicate continuity and will let you know when the test is completed and if it passed or failed the pre-set test limit.



FAR END	TESTER END	USED WITH	TEST CURRENT	SPECIAL FEATURE	LENGTH	PART NO.
Male duplex connector	2 hooks and plug	DLRO10, DLRO10X, DLRO10HD				
	10 A					
	Indicator LED in connection	1.5 m	1006-456			
				Indicator LED in connection	3 m	1006-458
				Indicator LED in connection	6 m	1006-459
	2 hooks	DLRO10, DLRO10X, DLRO10HD				
	10 A		1.5 m	1006-452		
					3 m	1006-454
					6 m	1006-455
		BT51			3 m	1007-023
					6 m	1007-024
	Female duplex connector with locking ring	DLRO10, DLRO10X, DLRO10HD	10 A	Lead extension	6 m	1006-460
Duplex probe	Female duplex connector with locking ring	DLRO10, DLRO10X, DLRO10HD, BT51	10 A	P and C probe spacing 6 mm	0.4 m	1006-450
Right angle duplex probe				P and C probe spacing 10 mm	0.4 m	1006-449
Concentric duplex probe				P and C probe spacing 3.8 mm	0.4 m	1006-448
Kelvin clip				Clip capacity 40 mm	0.4 m	1006-447
Kelvin clip touch proof insulated				Clip capacity 52 to 75 mm	0.4 m	1006-451
Right angle duplex probe	2 hooks	BT51	10 A	In-line duplex locking connectors	3 m	1006-442
				In-line duplex locking connector	6 m	1006-443
Duplex probe	1 off 2 hooks and plug 1 off 2 hooks	DLRO10, DLRO10X, DLRO10HD	10 A	In-line duplex locking connectors, 1 with indicator LED	1.5 m	1006-444
Kelvin clip				In-line duplex locking connectors, 1 with indicator LED	3 m	1006-462
Kelvin clip touch proof insulated				In-line duplex locking connectors, 1 with indicator LED	3 m	1006-461
Heavy duty Kelvin 10 mm g-clamp	2 spades		100 A		5 m	242104-2-16
					8 m	242104-2-16
HD 60 mm current clips and 22 mm potential clips	2 hooks	DLRO100, DLRO200, DLRO600				
	600 A	25 mm 2 csa	5 m	1008-029		
				50 mm ² csa	5 m	1008-028
				70 mm ² csa	10 m	6220-756
				95 mm ² csa	15 m	6220-757

Handheld transformer turns ratiometer

TTRU1

- Highly accurate in a wide temperature range, ensuring adaptability to diverse working conditions
- Go / No Go open-circuit, short-circuit, and inductance tests for a prompt diagnosis
- Short-circuit impedance measurements conveniently bundled with a ratiometer
- Powered by a rechargeable battery for maximum portability and flexibility
- Configurable vector lists for testing efficiency

The TTRU1 is the latest handheld transformer turns ratiometer from Megger. In addition to routine polarity validation and turns ratio tests, the TTRU1 can measure short-circuit impedance (leakage reactance) with the same one-time connection.

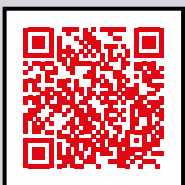
Perform up to 1000 turns ratio tests on a single NiMH AA battery charge. When it's time to recharge the batteries, connect to any standard USB wall charger, or connect to your PC.

The TTRU1 is designed to test distribution, instrument (CTs and PT / VTs), and power transformers. With minimal input from the user, the TTRU1 delivers the required AC voltage and current to obtain accurate results.



UNCOVER THE FACTS

Learn more about handheld transformer turns ratiometer



Motor and generator testing

Megger Baker Instruments are designed and manufactured with the purpose of testing and maintaining rotating machinery. They deliver predictive maintenance results with trending information that enables industrial maintenance teams to monitor plant and predict motor failures ahead of time to avert costly downtime.

Baker AWA-IV

Static motor analyser

- Available models : 2 kV, 4 kV, 6 kV, 12 kV, and 12 kV high output
- Test types : resistance, megohm, DA, PI, DC step voltage, DC Hi-Pot
- Surge (IEEE and IEC compliant)



The Baker AWA-IV automatically performs repeatable, user programmable tests to thoroughly assess the strength of a motor's insulation and circuit. In fact, it is the only high voltage test instrument that a user can program to perform specific sets of insulation tests prior to being in the field, and then use as programmed in the field. The AWA-IV is also used to assure the quality of motor rebuilds or new production motors before they are placed into service.

Baker DX

Static motor analyser

- Available models : 4 kV, 6 kV, 6 kV high output, 12 kV, 12 kV high output, 15 kV, and DX15A armature tester
- Test types (some tests require optional upgrades) : resistance, capacitance, inductance, megohm, DA, PI, DC step voltage, DC Hi-Pot, surge (IEEE and IEC compliant), partial discharge (PD) on surge



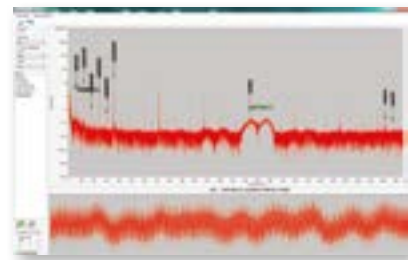
The Baker DX can find early indications of insulation weaknesses and faults in windings, between phases, coil-to-coil, and in groundwall insulation. It can identify if contamination is impacting insulation strength and detect motor circuit problems such as feed cable insulation weakness, motor imbalance, open circuits, or high resistance.

Rotating machinery testing

Baker EXP4000

Dynamic motor analyser

- Instrument connection options : at a motor junction box, at the instrumentation cabinet, inside a motor control cabinet (MCC), from outside an MCC (requires a Baker EP1000 (dynamic motor link))
- Monitors and assesses conditions across a running 'machine system' that impact the health and performance of the motor within the system
- Designed for rugged site use in tight spaces typical of industrial environments
- Tracks the amount and condition of load placed on the motor
- Evaluates the quality of incoming power fed to motor
- Facilitates survey of plant-wide motor efficiency
- Assesses motor performance indicators
- Visual confirmation of motor integrity
- AC or battery operation



ADX

Automated static motor analyser

- Complete range of essential tests to determine motor health, analyse trends, and find faults
- Test voltages from 4 kV to 15 kV (and up to 40 kV coupled with a Megger Baker PPX)
- DC insulation resistance (IR, DA, PI), and DC Hi-Pot (standard, step, or ramp)
- Plus, low voltage testing for winding resistance, inductance, and capacitance
- These include high voltage tests for surge and Hi-Pot testing



MTR105

Rotating machine tester

- Temperature correction for insulation resistance
- Environmental protection to IP54
- 3-phase insulation resistance
- Capacitance and inductance
- Motor direction of rotation
- Full colour graphic display
- Continuity and diode test
- CAT III 600 V up to 3000 m
- DLRO four wire Kelvin
- Guard terminal

The MTR105 is a dedicated static motor tester with Megger's tried and trusted suite of insulation resistance tests (IR), plus all the great traditional features, and reliability of Megger's testers. The MTR105 takes the test abilities of Megger's proven IR test instruments and adds the DLRO four-wire Kelvin low resistance test and inductance and capacitance tests to provide a versatile motor tester packaged into a robust, hand-held instrument, which up to now has not been available. Additionally, the MTR105 incorporates temperature measurement and compensation (for IR tests), motor direction of rotation plus supply phase rotation tests. These new test abilities make the MTR105 a real-world, versatile, hand-held motor test instrument. The MTR105 comes in an over-moulded case, providing increased protection and robustness and achieving an IP54 weatherproof rating.



Baker NetEP

Online motor analysis system

- Continuously monitors and analyses more than 120 electrical parameters on up to 32 motors, compares results to user-defined thresholds and generates alerts if these threshold limits are crossed
- Operates with a single voltage measurement connection per voltage bus (up to 7 different voltage busses per single NetEP unit), and current sensors installed for each motor being monitored
- Two data acquisition methods are provided : power quality (acquired every ten seconds) and time waveforms (acquired once per hour)
- Built upon the proven motor system monitoring technologies of the Baker EXP4000 Dynamic Motor Analyser
- Monitors motor systems for any degradation of performance, poor power quality, and adverse load conditions
- Generates alerts for environmental factors such as excessive heat on a given motor's operation



Partial Discharge testing



PD Scan

Handheld scanner for PD surveying in MV and HV plants

- For fast verification of partial discharge activity in MV and HV plants
- Universal application range, thanks to wide variety of sensors
- Integrated camera and QR code scanner
- Easy to use via keypad and touchscreen

The PD Scan is an on-line partial discharge (PD) handheld scanner for detecting defects in medium and high voltage systems (MV and HV). Such defects not only require costly repairs, but also can lead to failures of entire network sections with corresponding consequences. Therefore, it is in the interest of all network operators to recognise signs of impending defects as early as possible and to be able to take appropriate countermeasures on time.



UHF PD Detector

Handheld on-line PD substation surveying system

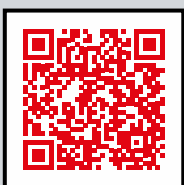
- Synchronises with power frequency via internal, mains, or external sensor for PRPD pattern recognition
- Non-invasive tool for online PD measurements in MV and HV substations
- Dual channel system for direct comparison between two sensors
- Large colour touch-screen for easy operation



The UHF PD Detector is the ideal tool for quick, non-invasive surveys in MV and HV substations and should be part of the toolbox for all maintenance and service teams. Thanks to high bandwidth, UHF measurements can accurately measure local online PD activity in frequencies above those of common disturbances.

UNCOVER THE FACTS

Learn more about
Partial Discharge testing



Time domain reflectometry

TDR2050

Two-channel cable fault locator for power applications

- Designed for use on all metallic paired cables
- 600 V CAT IV Input Protection filter built in
- Step and Pulse TDR selections
- Distance dependant gain
- 2 ns pulse width
- Trace Tagging



TDR1000/3

Advanced handheld Time Domain Reflectometer (TDR)

- Trace HOLD feature with live trace overlay to allow comparison between cables
- Ultra fast pulse for near end fault identification
- Designed for use on all metallic cable pairs
- IP54 rating offers real life working
- AUTO set up for instant use



TDR500/3

Handheld single channel Time Domain Reflectometer (TDR)

- For use on Telecom TNV-3 circuit, or 150 V CAT IV power circuits
- AUTO option selecting gain and pulse for each range
- Backlit graphics monochrome LCD (256 x 128)
- 2 ns pulse for near end fault location
- Power blocking filter not required
- Display distance in metres or feet
- Environmental protection to IP54
- Uses five AA (LR6) primary cells
- Adjustable display contrast
- Resolution to 0.1 m



The TDR500/3 is a handheld single channel time domain reflectometer (TDR) for locating faults on metallic cables. It is compact, can be used on all metallic cable pairs, and has a minimum resolution of 0.1 m and a 5 km maximum range, depending on velocity factor selected and cable type.

Cable fault location system

EZ-Thump12

Portable fault location system for MV networks

- Automatic cable end, fault location, and sectionalizing (optional in certain markets)
- Compact, lightweight, all-in-one, rugged portable cable fault locating system
- ARM® prelocation of high resistance / flashover faults with MULTISHOT
- Battery and AC line operation; field-replaceable battery



EZ-Thump3

Portable fault location systems for LV networks

- Dual-stage capacitor surge discharge : 500 J @ 1.5 kV & 3.0 kV for new 3 kV model
- Single-stage capacitor surge discharge : 500 J @ 4 kV for 4 kV model
- Maximum burn current up to 94mA depending on voltage
- 7 in. HiBrite color display for outdoor visibility
- Compact and lightweight, 75 lbs (34 kg)



Smart Thump ST16-20

16 kV portable cable fault location system

- 20 kV DC high voltage proof / burn and displays insulation resistance
- E-Tray automatic test sequence to proof test, prelocate, and pinpoint
- Earth gradient LV fault locating and sheath fault locating
- ARC reflection MV cable prelocation



digiPHONE+2

Shock wave receiver for acoustic and electromagnetic fault location

- Automatic adjustment of all parameters, no adjustment necessary
- Automatic filtering of interference signals
- Acoustic-magnetic cable fault location
- Highest acoustic noise immunity



The new digiPHONE+2 enables you to use a combination of different methods for efficient noise dampening, giving you perfect acoustics so you can hear only the fault noise.

Cable route tracing and identification

EasyLoc

Utility location system

The Easyloc RxTx utility location system has been designed to detect and trace cable runs and pipe networks. The Easyloc RxTx is fast and simple to operate, with features designed to help you avoid potentially dangerous power cables, and other services, as efficiently as possible. This helps you stay safe and also helps you avoid damaging the cables, minimising costly accidents.



CI LCI

Cable identifier

The CI cable identifier will safely identify a dead (or de-energised) primary cable within a group of energised or de-energised cables. It can also identify live secondary cables, including neutrals, up to 240 V AC (440 optional).



CHM Series

Cable height meters

The CHM Series of cable height meters utilize ultrasonic techniques to determine the height of up to six overhead cables and wires. The instruments are designed to address specific measuring requirements on cables up to 75 feet (23 m). The CHM600 (C/N 659600) and CHM600E (C/N 659600E) are designed primarily for power cable applications, while the CHM2000 is designed for telecommunication applications.



MCT105

Cable locator

- Works on both live and dead cables or conductors
- Locate conductor breaks and short circuits
- Identify fuses and circuit breakers
- Built-in torch (receiver)

The kit for the Megger MCT105 cable locator includes a separate transmitter and receiver. The instrument is designed to help detect and trace cables or metallic conductors in walls or buried underground and can locate and identify fuses or breakers on electrical circuits. It can also find breaks or short circuits in cables and electrical underfloor heating systems and can be used for tracing metal water and heating pipes.



Power quality

With the increased sophistication of electrical and electronic equipment, and the new micro generation systems being added to the grid, there is now more attention being paid to the quality of supply. Power quality surveys on electrical noise, lamp flicker, load balancing, power factor correction and motor in-rush studies can all be carried out with Megger power quality analysers.

MPQ1000

Handheld power quality analyser

- Multiple communication methods (USB, Ethernet, USB stick, or SD card) allow for flexible and convenient operation
- On-board data analysis saves time by allowing an immediate examination of data before leaving the site
- Automatic CT recognition means never having the unit programmed for an incorrect range
- CATIV @ 600 V assures a safe unit for all applications

The MPQ1000 handheld power quality analyser is an advanced three-phase analyser with features which make it ideal for troubleshooting, compliance testing, and energy audits. It is a highly intuitive instrument that delivers unmatched capability in a smart ergonomic platform.



MPQ2000

Portable power quality analyser

- Weatherproof to IP54 standard for use in any environment
- Powered off of phase A voltage AC / DC
- IEC61000-4-30 Class A compliance
- 1000 V AC and 1500 V DC range

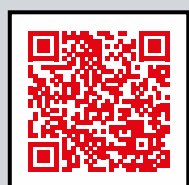
The MPQ2000 portable power quality analyser is a highly intuitive, advanced, portable three-phase analyser, delivering unmatched capability, in a rugged IP54 weatherproof enclosure.

	MPQ1000	MPQ2000
Voltage inputs	4 with common neutral	4 isolated channels
Current inputs	4	5
Battery powered	■	■
Powered off of A phase		■
Case type	Handheld	Weatherproof
Weight in kg	1.8	2.3



UNCOVER THE FACTS

Learn more about power quality



Battery testing

With the increasing dependency of back-up systems on battery strings and the escalating cost of replacing batteries, instrumentation, and software systems that can measure, trend and manage the life-cycle of cells is a cost effective option. There are two methodologies for testing batteries. The first, impedance testing, is an online test that can be performed frequently to identify individual weak cells before they fail. The second, battery discharge test, is normally an offline test and tests the actual output of the whole battery under load conditions. This will show what will actually happen if the battery is required to take the load. Most battery systems are floating and have earth leakage monitors and trips if there is an earth fault. The battery ground fault tracer allows you to trace a faulty circuit easily in a complex floating system.

BITE5

Battery tester

- Measures impedance on cells up to 200 V
- Supports lead acid, NiCD, and lithium-ion
- Supports battery discharge testing
- Measures DC voltages up to 1000 V
- Measures AC voltages up to 600 V
- Touch screen set-up and trending
- Measures AC and DC current
- USB and micro SD card

The BITE5 will test lead acid batteries, NiCD batteries as well as lithium-ion batteries. It will measure and record battery voltage, impedance, and temperature. The recorded data can be trended on the unit's touch screen. View the trended data of each test or trend the data of each cell. Set pass, warning, and fail limits for voltage and impedance. Record the ripple voltage, ripple current, and float current and transfer the recorded data via USB or via an SD card to the Power DB software, then create custom reports and automated analysis.



TORKE900

Battery discharge test system

- Enhanced safety features including spark free connection, detection of blocked airflow, and emergency safety fuse
- Easily expandable for larger battery banks using TXL extra load units
- Can be used with lead-acid, NiCd, and other battery types
- Battery cell monitor control integrated in the system
- Dynamic discharge technology – full power at all voltages
- A complete standalone discharge test system
- Easy report function and calibration
- Batteries can be tested in service
- Real-time monitoring during test

The TORKE™ 900 series is used to perform load / discharge testing which is the only way to determine battery systems actual capacity. Discharge testing is the only test method that provides a comprehensive insight into battery capacity, and is therefore an essential part of vigorous battery maintenance programmes.



Earth or ground testers

Earth or ground resistance testing – One of the most important considerations in an electrical system is the resistance of the earth for reliable operation and safety. Whether you are doing a ground resistivity survey to plan the location of a substation or testing an earth electrode, Megger has an earth tester suitable for the job. Megger has more than 50 years' experience in designing and building earth resistance testers. The latest generation are CAT IV rated and have tough molded cases. Variable test frequency keeps noise down, reliability up.

DET2/3

Advanced earth tester

The DET2/3 is a robust and compact automatic earth / ground test instrument designed to measure earth electrode resistance and soil resistivity. For use on large or more complex earth systems, which include communications earth systems and difficult test environments, it can be used to test in accordance with BS 7430 (earthing / grounding), BS-EN-62305 (lightning protection), BS-EN-50122-1 (railway applications), and IEEE Standard 81.

The DET2/3 can provide a live trace of its measurements, which graphically shows the amount of noise from the system under test – a powerful diagnostic tool for the expert earth / ground test engineer. Test frequency, test current and filtering can be quickly and easily adjusted so that adverse conditions, which can influence the test, can be overcome, and a wide band of test current frequencies, with a resolution of 0.5 Hz, can be used to eliminate errors caused by noise in the earth.

The DET2/3 also includes an automatic frequency selection feature that scans for frequencies with the lowest noise level and then runs a test at that frequency. The selected test current frequency, test current level and the increased filtering option are stored in memory for use in subsequent tests. Use of the latest processors and a large internal memory allows for immediate calculations of resistivity (Wenner or Schlumberger method) and the ability to save a complete days' worth of test results. Test result data can be downloaded directly through a USB flash drive or straight to a Windows PC running PowerDB™ software.



ETK

Earth test kit

The Megger Earth Test Kit (ETK models) are designed to be as practical as possible. Housed in a holdall, the kits are stored neatly, well protected and easy to transport. Much care has been taken to produce a variety of kits to meet needs. In use, the test leads are fitted and retained on reels with smooth action.



DET3 & 4 Series

Earth ground testers

All models include these features :

- IP54 rated (water / dust ingress) for extra protection in harsh conditions
- Extra large, clear display for easier operation in outdoor conditions
- Battery powered with a bar graph that updates battery strength
- Noise reduction up to 40 V peak to peak
- Simple one-button operation
- Safety rating of CAT IV 100 V
- Extra large selector switch

DET3TD : Digital earth / ground resistance tester is ideal for basic requirements as it provides digital ground testing and bond test capabilities.

DET3TC : is capable of testing on-site grounds without disconnecting the utility connection.

DET4TD2 : Dry-cell battery powered basic 4-terminal earth / ground tester.

DET4TR2 : Rechargeable battery powered basic 4-terminal earth / ground tester.

DET4TC2 : Dry-cell battery powered 4-terminal tester with selectable test frequencies, greater measurement sensitivity, and attached rod technique (ART) and stakeless measurement capability.

DET4TCR2 : Rechargeable battery powered 4-terminal earth / ground tester with selectable test frequencies, greater measurement sensitivity, ART, and stakeless measurement capability.

Each instrument includes everything you need to test :
Comes complete with test leads, stakes, batteries, calibration certificate, and rugged polypropylene carry case.



DET14C DET24C

Digital earth / ground clamp testers

- Elliptical clamp shape improves access to earth cables and straps up to 50 mm
- Measures true RMS ground leakage current from 0.5 mA RMS to 35 A RMS
- Measures ground resistance from 0.05 Ω to 1500 Ω
- Memory and Bluetooth® downloading
- Low maintenance flat jaw interface
- Automatically self calibrates
- CAT IV 600 V safety rating
- High and low alarms

The DET14C and DET24C represent a new generation of earth / ground clamp-on resistance testers. These instruments induce a test current into earth systems and measure ground resistance in multi ground installations without needing to disconnect the ground.

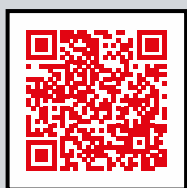


Earth or ground testers

		DET4TCR2	DET4TC2	DET4TR2	DET4TD2	DET3TC	DET3TD	DET14C	DET24C	DET2/3
Test techniques available	4 pole resistivity test	■	■	■	■					Calculated
	3 pole electrode	■	■	■	■	■	■			■
	4 pole electrode test with ART	■	■			■				■
	2 pole bond test	■	■	■	■	■	■			■
	Stakeless test	■	■					■	■	■
Power	Rechargeable	■		■						■
	Dry cells		■		■	■	■			
Warnings	Excessive noise	■	■	■	■	■	■			■
	Potential spike resistance high	■	■	■	■	■	■			■
	Current spike resistance high	■	■	■	■	■	■			■
Resistance range	Resolution	0.01 Ω - 200 kΩ 0.01 Ω	0.01 Ω - 200 kΩ 0.01 Ω	0.01 Ω - 20 kΩ 0.01 Ω	0.01 Ω - 20 kΩ 0.01 Ω	0.01 Ω - 2.0 kΩ 0.01 Ω	0.01 Ω - 2.0 kΩ 0.01 Ω	0.05 Ω - 1.5 kΩ 0.01 Ω	0.05 Ω - 1.5 kΩ 0.01 Ω	0.01 Ω - to 20.00 kΩ
Earth current range	0.5 mA to 35 A							■	■	0.00 to 2.00 A
	0.5 mA to 19.9 A	■	■			■				
Test frequency		94, 105, 111, and 128 Hz	94, 105, 111, and 128 Hz	128 Hz 128 Hz	128 Hz 128 Hz	128 Hz 128 Hz	128 Hz 128 Hz	1390 Hz 1390 Hz	1390 Hz 1390 Hz	10 to 200 Hz 0.5 steps
Noise rejection 40 V peak to peak		■	■	■	■	■	■			50 V p to p
Test results storage								■	■	■
Downloadable test results									■	■
IEC61010-1 safety rating		CAT IV 100 V	CAT IV 100 V	CAT IV 100 V	CAT IV 100 V	CAT IV 100 V	CAT IV 100 V	CAT IV 600 V	CAT IV 600 V	CAT IV 300 V
Weather and dust-proof to IP54		IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Warranty upgradeable to 3 years FREE		■	■	■	■	■	■	■	■	■
Power DB earth testing forms		■	■	■	■					■

UNCOVER THE FACTS

Learn more about earth or ground testers



Earth loop impedance testers

LT300

High current loop tester

The LT300 offers high current loop testing over a wide range of frequencies and supply voltages with a simple, fast, two-wire operation.

Frequency range

Supply frequency is indicated upon connection and the LT300 will automatically set to one of these supply frequencies : 16 Hz, 50 / 60 Hz, or 400 Hz. Testing will commence automatically.

Loop measurement

- Two loop impedance ranges are provided
- 20 Ω – Resolution to 0.01 Ω
- 200 Ω – Resolution to 0.1 Ω

Supply voltage

Operational supply range extends from 50 V to 550 V (400 V @ 16 Hz), with a warning for voltages over 330 V, highlighting accidental phase-to-phase connections on a nominal 230 V system.



LTW315

LTW325

LTW335

2-wire non-tripping earth loop impedance testers

The range consists of :

- LTW315 – 2-wire loop impedance measurement
- LTW335 – 2-wire + maxZ + (R1+R2) + download
- LTW325 – 2-wire + maxZ + (R1+R2)

The 2-wire non-tripping earth loop impedance testers verify the loop impedance of a live electrical circuit, i.e. without the need to disconnect the electrical supply. The new LTW300 series instruments offer a 2-wire loop testing solution that does not trip 30 mA RCDs and can be used on a wide range of voltages.

The new LTW300's offer a range of features to make earth loop testing safer and easier.



Battery ground fault locator

MGFL100

- Direct measurement of resistance and stray capacitance
- Direct measurement of fault current and leakage current
- Alarms when the real fault is identified
- Adjustable current and voltage limits
- Locate faults on AC or DC systems
- Powered off AC or internal battery
- Operates on systems up to 600 V
- Locates faults up to 400 k Ω

The MGFL100 battery ground fault locator locates ground faults on ungrounded DC and AC systems, DC battery systems, and protected IT networks. It also alarms when the real fault is found, while automatically distinguishing between real fault current and reactive current drawn by stray system capacitance.

The MGFL100 measures the earth / ground fault resistance, the system capacitance, the real fault current, and the reactive leakage current. It also locates high impedance ground faults due to water ingress, as well as ground faults on systems with high leakage current. The MGFL100 makes locating the ground fault fast and easy by alarming when the circuit with a real ground fault is located. No complicated tuning out of noise or capacitance is required. Easily trace the fault with the lightweight transmitter and receiver. Set both password protected voltage and current limits to ensure you never put too much current in your system.

The MGFL100 also enables you trace short-to-ground faults, or earth faults, by directly coupling to the line. This can be done either off-line or on-line using a coupling filter.



Residual current device testers

RCDT Series

- 3-phase safe enables testing on 110 V centre tapped supplies (RCDT320 / RCDT330)
- Tests standard, type A, selective, and programmable RCDs
- Tough rubber armoured case with built-in cover
- Weatherproof to IP54

The RCDT300 series of residual current device testers are innovative instruments that combine rugged construction with intuitive operation. Even if they are inadvertently connected to a live three-phase supply, Megger's RCDT300 range remain undamaged and present no safety hazard to you.

Available in three models, the RCDT300 series are compact and easy to use. Their rubber overmoulding gives them additional protection, plus they come with a built-in display cover. All models in the range are water and dust resistant with an IP54 rating.

There are three models in the range :

RCDT310 : suitable for use on supplies between 100 V and 280 V, and offers 0.5I, I and 5I tests, with provision for tests starting at 0 ° or 180 ° of the supply waveform, as well as for DC tests.

RCDT320 : covers a wider supply voltage range of 50 V to 280 V, allowing use with centre-tapped 110 V supplies.

RCDT330 : has an extended operating current range to cover 10 mA to 1000 mA devices, and the ability to measure AC supply voltage and frequency is added.



SELECTION GUIDE	RCDT310	RCDT320	RCDT330
RCD testing			
Type AC RCD's 1/2I, I, 5I RCD trip time test	■	■	■
Selective breakers (Type S)	■	■	■
Type AC RCD's 1/2I, I, 5I RCD trip time test	■	■	■
30, 100, 300, 500 mA RCDs	■	■	■
10 mA / 1 A RCDs		■	■
RCD trip current test (RAMP)		■	■
Auto sequence test		■	■
0° / 180° polarity selection	■	■	■
Touch voltage display inhibit (selectable)	■	■	■
Max Touch voltage (25 V / 50 V)	■	■	■
Operating range 100 V to 280 V	■		
Operating range 50 V to 280 V		■	■
Programmable RCDs			■
Frequency measurement		■	■
Features			
3-phase Safe		■	■
Large clear display	■	■	■
Backlight		■	■
Battery status indication	■	■	■
Auto power down	■	■	■
Fuse blown indication	■	■	■
IP54 weatherproof	■	■	■
Result storage			■
Downloading			■
USB interface			■
IEC61010-1 CATIII 300 V	■	■	
EN61557	■	■	■
Calibration Certificate	■	■	■
3 year warranty	■	■	■
Accessories			
Plug ended test lead	■	■	■
2 wire ended test lead probe / croc clip ended		■	■

Combined loop and RCD testers

LRC210 and LRC220

Combined loop and rcd testers

All instruments are designed using the new Megger electricians tester case, providing tough rubber armouring, built-in front cover, weatherproof to IP54 and easy-to-use functions and layout. The instruments can be hung around the neck or hand held and will not slip if placed on a bench or shelf. Test leads can remain attached with the front cover open or closed. L-N-E connection indicator LEDs show connection status and reverse polarity supplies.

NON-TRIPPING LOOP TESTING

The Megger 'No-Trip' loop test is designed for loop testing on circuits where an RCD is fitted. The RCD is guaranteed not to trip if rated 30 mA or greater. The 'No-Trip' loop test is also guaranteed not to trip electronic RCDs.

RCD Testing

Testing the trip times of RCDs with all commonly found RCD current ratings.

For most international applications and the UK, 5 tests must be performed :

- 1) 1 / 2 x RCD current rating, to ensure the RCD does not trip when half the rated current is flowing in the RCD.
- 2) 1 x RCD current rating. This is a trip test to ensure the RCD trips with the specified trip time.
- 3) 5 x RCD current rating. A Trip test to ensure the RCD trips within the specified time.
- 4) Both the 1x and 5x tests must be performed at both 0 degrees and 180 degrees (positive and negative supply half cycles) to ensure worst case time is recorded.

The auto RCD test on the LRC220 allows all the above tests to be performed automatically whilst the operator stands by the RCD and rests it as it trips. Results can then be recalled to the screen.

- RCD testing from 10 mA to 1000 mA
- Extremely easy and safe to use
- Built-in protective front cover
- Tough rubber armoured case
- Non-trip loop tester
- 3 year warranty
- Weatherproof

SELECTION GUIDE	LRC200	LRC210	LRC220
Calibration certificate	■	■	■
Loop testing			
Non tripping loop test	■	■	■
PFC	■	■	■
Single phase	■	■	
Hi current loop test			■
Phase to phase			■
3-phase safe	■	■	■
Voltmeter	■	■	■
RCD test			
1 / 2 x I test		■	■
1 x I test	■	■	■
5 x I Test		■	■
Auto RCD			■
Touch / Contact voltage display	■	■	■
Selectable 25 V / 50 V touch voltage	■	■	■
10, 30, 100, 300, 500 mA ranges	■	■	■
1000 mA			■
Type AC, Type A and Type S tests	■	■	■
Selectable phase 0 / 180	■	■	■
Ramp test (20% to 110%)	■	■	■
General testing			
Frequency	■	■	■
Phase rotation			■
Reverse polarity operation (Continental instruments only)	■	■	■
Backlight			■
Mechanical			
BS1363, CEE7/7, AS / NZS 3112 plug variants	■	■	■
IP54	■	■	■
Working voltage 230 V	■	■	
Working voltage 110 V and 230 V			■



Multifunction installation tester

MFT-X1

Multifunction tester

The MFT-X1 new electrical installation testing platform MFT-X1 is the first of a new generation of firmware upgradeable, full functionality multi-function testers for low voltage electrical installations.

Intended for use on all low voltage electrical installations including EV charge points and domestic photovoltaic systems, the range of test capabilities allow for general commissioning of installations and periodic maintenance as well as detailed fault diagnostics.



- Brand new features including full colour screen, RCD configurator and EV charge point testing
- Never be without power with our quick-remove battery pack and rechargeable battery option
- Fully compatible with CertSuite Installation for easy certificate generation and reporting
- Designed for the electrical testing of single and 3-phase installations
- TrueLoop™ measurement using patented confidence meter

CertSuite Asset

Asset testing and reporting software

CertSuite Asset is cloud-based software that can be used on both Android or iOS smartphones and tablets. Which operating system you use will depend on the instrument being used. The system is also accessible using most browsers, such as Microsoft Edge, Google Chrome, Apple Safari, or Mozilla Firefox. It will also work offline when using the mobile app.



The cloud-based system uploads all of your valuable test results immediately to securely store them as they are recorded. So, no more concerns about losing data; missing information because it wasn't written down; missing important details, such as recording environmental conditions, the test setup, and connections tested, or even visual inspection issues found.

CertSuite Asset supports the models outlined in the connection guide, however, support for more instruments will be quickly added, to make it the one stop place to manage all of your mobile asset testing needs.

- Secure cloud-based asset test result storage on the Microsoft Azure platform
- Simultaneous job access for multiple users (licence required per user)
- Mobile app / PC browser based asset testing software
- Full asset testing management

Connection Guide :

Products	Android	Windows
S1-568	Bluetooth®	USB
S1-1068	Bluetooth®	USB
S1-1568	Bluetooth®	USB
MIT525		USB
MIT1025		USB
MIT1525		USB
MIT2500	Bluetooth®	
MIT430/2	Bluetooth®	

Multimeters

AVO410

TRMS Digital multimeter

- Resistance, frequency and capacitance ranges
- 6000 count backlit digital display
- True RMS reading on AC mode
- 1000 V DC / 750 V AC ranges
- CAT IV 600 V safety rating
- 10 A AC / DC ranges

The AVO410 TRMS digital multimeter has been designed for the contracting electrician however, its additional features also make the instrument suitable for wide range of applications and users. Indeed, the AVO410 offers both AC and DC voltage and current measurements as well as resistance, frequency, and capacitance ranges. It is also capable of true RMS readings on AC functions and has a CATIV 600 V safety rating, making it suitable for industrial applications. To that end, its slim, compact case has a tough rubber holster, giving it extra protection from the extreme conditions found in industrial environments.

The style of the case and positioning of the function switch and buttons means the unit sits comfortably in your palm for single-handed use and it's intuitive functions make it easy to use without constant reference to the user guide.



AVO210

Digital multimeter

- Resistance, frequency, and capacitance ranges
- Non-contact voltage detector
- 1000 V DC / 750 V AC ranges
- 2000 count digital display
- 10 A AC / DC ranges
- CAT III 600 V

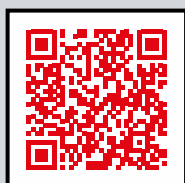
The AVO210 digital multimeter is a general purpose multimeter suitable for electricians, heating engineers, and alarm technicians. It offers AC and DC voltage and current measurements as well as resistance, frequency, and capacitance ranges making it useful for a wide range of applications.

Its AC and DC voltage measurements go up to 750 V and 1000 V respectively, and a separate fused terminal is provided for current measurements up to 10 A for both AC and DC.



UNCOVER THE FACTS

Learn more about multimeters



Clamp meters

DCM320

200 A AC open jaw clamp multimeter

- 0.1 V to 1000 V auto-ranging AC and DC voltage measurement
- 200 A AC open jaw current measurement
- Non-contact detection of AC voltage
- Continuity buzzer and diode check
- 0.1 Ω to 20 M Ω resistance range
- CAT IV 600 V

The DCM320 can measure both AC and DC voltages up to 600 V and resistance up to 20 M Ω via the terminals and supplied test leads. It also has a continuity buzzer that operates up to 20 Ω .



DCM330

Fork multimeter

- Auto off to conserve batteries
- 20 M Ω resistance range
- Continuity buzzer
- Auto-ranging

The DCM330 is a versatile instrument, capable of performing AC and DC voltage measurements up to 1000 V and resistance measurements up to 20 M Ω . It also has a non-contact voltage detection facility and a continuity buzzer with diode check - and all of this is functionality has been put into a single compact instrument, eliminating the need for separate multimeter and clamp meter.



DCM340

Digital clamp meter

- Zero-offset REL mode for comparative measurements
- Peak, min / max, and data-hold functions
- High resolution digital bargraph
- DC / AC current and voltage
- IEC61010 CAT III 600 V
- Resistance and continuity

The DCM340 digital clamp meter is a highly versatile instrument ideal for use in the installation, maintenance, monitoring, or checking of AC and DC electrical systems and equipment. Indeed, it has been designed for use on electrical systems and equipment where there is a need to measure current, volts, resistance, and frequency. It is therefore intended for use while installing, maintaining, fault finding, or monitoring those systems.



DCM1500S

Solar clamp meter

- 1500 A AC / DC Smart Hold
- TRMS 1500 V AC
- Min/max Hold
- Auto ranging
- Inrush Current
- 2000 V DC

The DCM1500S solar clamp meter has been designed to be used on electrical systems and equipment, including solar / photovoltaic installations where, there is a need to measure current, volts, resistance, and frequency.



Clamp meters

DCM1500

1500 A TRMS clamp meter

- Large jaw size improves safety when working with uninsulated conductors
- Resistance, continuity and frequency measurement
- Peak, minimum, maximum, and data-hold functions
- True RMS measurement for greater accuracy
- DC and AC current measurement up to 1500 A
- 750 V AC and 1000 V DC



DCM305E

Leakage current clamp

- Up to 100 A range for standard AC current measurements
- Measuring ranges : 6 mA, 60 mA, 600 mA, 6 A, 60 A, 100 A
- Low pass filter to aid stability of readings
- Automatic or manual measuring range
- Auto-hold, data-hold, and peak-hold
- 40 mm clamping jaw
- 0.001 mA Resolution
- TRMS value reading



DPM1000

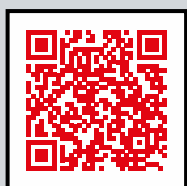
Power clamp meter

- Bluetooth® link to the Megger Link app
- AC / DC voltage to 1000 V
- AC / DC current to 1000 A
- Phase rotation indication
- Resistance 100 k Ω
- True RMS



UNCOVER THE FACTS

Learn more about clamp meters



Thermal camera and isolation test kits

TC3231

Thermal imaging camera

- USB interface for downloading images from SD memory
- Automatic shutdown (10 minutes inactivity)
- Hot and cold spot measurement and tracking
- Date and time stamp saved on images
- Thermal sensitivity (NETD) ≤ 150 mK
- Image acquisition frequency 9 Hz
- Li-ion battery, rechargeable
- Standard camera mount
- 6000 image memory



TPT420

Voltage tester

- Continuity test function with visual and acoustic indication
- Voltage indication with no batteries
- CAT IV / 1000 V
- 12 V to 1500 V DC
- IP64 rated

The Megger TPT420 voltage tester is designed to provide electricians and electrical engineers with an easy to use voltage indicating instrument. The meter will continue to warn the operator of dangerous test voltages even when the batteries are exhausted.



MPU690

Test unit for two-pole tester

- Automatic switch-on and switch-off for energy-saving operation
- Step LED indicate test voltages 50 V, 100 V, 230 V, 400 V, 690 V
- Simulates AC voltage with 50 Hz
- The compact housing contains a magnetic holder
- Tests two-pole testers
- Battery level warning



DETEX®

Voltage detectors and phasing testers

- Grounded or ungrounded AC system check
- Continuous monitoring
- Voltage detectors
- IEC conformance
- Phasing testers
- Seven models
- Five models



Electric vehicle charge-point adaptor, irradiance meter, socket tester & laser distance meter

EVCC300

Electric vehicle charger checker

- Reads control pilot state response from EV charger to IEC61852-1
- Checks to see if nuisance tripping or RCD / GFCI is likely to occur
- Performs four EV charger safety checks
- Performs four EV charger operation checks



EVCA210

Electric vehicle charge-point adaptor

- Accessory for the MFT1700 and MFT1800 series to enable electrical vehicle charge point testing
- Type 2 Charging Plug for charging points with panel mounted socket outlet or fixed cable with vehicle connector
- Type 1 Charging Plug for charging points with fixed cable and vehicle connector
- (Example Mitsubishi PHEV) – option for the EVCA210 / standard on the EVCA21

The Megger PVM210 provides the solar / photovoltaic engineer a compact, pocket size instrument that is easy to use.



PVM210

Irradiance meter

- Optimal incident angle and positioning of solar panels
- Measurement of solar power for panel short circuit calculation
- Single handed use
- Standard camera mount fixing for accurate placement
- 33 / 4 digit LCD display with 1999 W/m2 range
- Mini pocket size



MST210

Socket tester

- Simple and effective identification of faulty wiring at sockets
- 2 green and 1 red LED's for instant error reporting and fault diagnosis
- Identifies 17 missing wire and wrong connection combinations
- Rugged and reliable
- Easy to use



MLM50

Laser distance meter

- Supplied with protective carry pouch
- Automatic max / min measurements
- 50 m range laser distance meter
- 20 measurement memory
- Volume calculation
- Area calculation



Voltage detector

VF5

Voltage detector

- Visual, audible, and vibration warning of low and medium voltages
- Durable rubber over-moulded body
- AC non-contact voltage detector
- Built-in bright-white LED torch
- 12 V to 1000 V voltage range

The Megger VF5 voltage detector is intended to be used to check for the presence of AC voltage, indicated by a bright red LED situated within the white nylon tip, an audible sounder, plus vibration alert. The detector has both low voltage (12 V to 1000 V) and medium voltage (100 V to 1000 V) ranges. The VF5 has the added advantage of a bright-white LED torch for use in poor light.



VF6

Hazardous area AC voltage detector

- Visual, audible, and vibration warning of low and medium voltages
- Built-in bright-white LED torch
- AC non-contact voltage detector
- 12 V to 1000 V voltage range
- Hazardous area EX rated

The Megger VF6 EX voltage detector is intended to be used to check for the presence of AC voltage, indicated by a bright red LED situated within the white nylon tip, an audible sounder plus vibration alert. The detector has both low voltage (12 V to 1000 V) and medium voltage (100 V to 1000 V) ranges. The VF6 EX has the added advantage of a bright-white LED torch for use in poor light.



UNCOVER THE FACTS

Learn more about voltage detector



Portable appliance testers

PAT320 PAT350

Portable appliance testers

- Pre-set test sequences for class I, class II, and extension leads
- Differential, touch, and substitute leakage testing
- Tests portable RCDs and extension leads
- Bond testing at 25 A, 10 A, and 200 mA
- Simple manual or automatic testing
- Flash testing at 1.5 kV and 3 kV
- Tests to DIN VDE 0701-0702
- 230 V and 110 V operation
- Full colour display



The PAT300 series of portable appliance testers carry out all test requirements automatically with one button press and provides outstanding productivity, giving you the ability to test record numbers of appliances per hour. The PAT300 series are easily portable desktop appliance testers for testing the safety of portable electrical equipment to meet health and safety regulations.

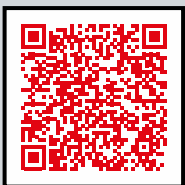
The series is comprised of two products:

PAT320 : This is the PAT tester you need if you want high productivity within a tough and easy-to-use instrument. It is a fully featured tester with dedicated test buttons for direct access to tests and is ideal for those who don't require the complexity of a fully configurable database of clients and results within the tester, but do need a complete range of functions to allow automatic or manual testing of the widest range of electrical assets. If you are moving into PAT testing for the first time, or you don't want the complexity of database management, the PAT320 is ideal for you.

PAT350 : This instrument is identical to the PAT320, with the addition of flash-test capability for use in environments such as manufacturing, production, or tool-hire shops.

UNCOVER THE FACTS

Learn more about portable appliance testers



PAT120 PAT150

Handheld portable appliance testers

- Includes 250 V insulation and leakage testing for safe IT testing and surge protected devices
- Tough, rubber armour with built-in front cover, hardened, scratch-proof display window
- Simple 'tick or cross', 'pass or fail' indication plus measurement
- Substitute and mains-powered leakage testing (PAT150)
- 10 mA and 30 mA portable RCD lead testing (PAT150)
- Testing portable and fixed electrical equipment
- Battery powered with rechargeable options
- Adjustable PASS test limits (PAT150)



Included accessories PAT120 : Test leads with test probe and clamp, adapter for extension cable, hard-shell case

Included accessories PAT150 : Test leads with test probe and clamp, adapter for extension cable, mains connection lead, hard carry case

PAT410 PAT420 PAT450

Database driven portable appliance testers

- 230 V and 110 V operation for industrial, commercial, and residential applications
- 200 mA, 10 A, and 25 A Bond test with high duty cycle for repetitive testing
- Optional barcode scanner and printer available to save time typing asset IDs
- Selectable PASS / FAIL limits provide instant indication of a faulty asset
- Large 5.7" 1/4 VGA backlit full colour screen for clear results
- 10 000 memory storage with USB download

PAT410 : perfect for those content to bond test solely at 200 mA, The smallest, lightest of the series, it weighs only 2.7 kg.

PAT420 : offers earth bond testing at all three currents, 200 mA, 10 A, and 25 A, and has 230 V and 110 V operation.

PAT450 : this instrument is top of the range with all the features of the PAT410 and 420 and, in addition to the three-bond test and 230 V and 110 V operation.





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