



# EQUIPMENT RENTAL SERVICES

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industrial services

# About Us:

Our T&ME experts can help you choose the best way to acquire, implement and manage your Test Equipment needs. T&ME rental and leasing programs are designed for value-conscious companies looking to avoid the costs of owning, repairing, and calibrating their test and measurement equipment.

We have the latest state-of-the-art test & measurement equipment from well-recognized manufactures to carry out all your measurement and testing activities. We offer Short Term Rental and Long Term Rental & Leasing.



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# ZJA Series High-Vacuum Transformer oil filtration machine

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- ZJA Series Double-Stage High-Vacuum Transformer oil filtration machine (10,000 L/H)
- ZJ Series Vacuum Air-Pump Set Vacuum Machine (2000 m<sup>3</sup>/H)
- Oil storage tanker (32,000 liters capacity)

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# Megger OTS80PB

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## OIL breakdown voltage Tester

Megger's automatic portable oil test sets perform accurate breakdown voltage tests on mineral, ester and silicon insulating liquids. Molded test vessels give repeatable results in the field and laboratory with lock in precision electrode gap setting adjustment wheels. The transparent, shielded lid is a key feature enabling users to see what is happening within the test chamber.

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# Megger TRAX 280, TDX120, TCX200 & TSX300

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**Standard transformer software package,  
800A AC output**

TRAX is a multi-functional solution for transformer testing. It also adds several common substation testing functionalities, and ultimately replaces numerous individual testing devices. Compared to conventional single-functionality instruments, TRAX saves time and is more cost effective.



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# Megger DELTA 4310

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## Insulation Power Factor Tester

DELTA4000 series is a fully automatic 12 kV insulation power factor / dissipation factor (tan delta) test set designed for condition assessment of electrical insulation in high voltage apparatus such as transformers, bushings, circuit breakers, cables, lightning arresters, and rotating machinery.

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# Megger TTR330

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## 3-Phase Transformer Turns Ratio Test Set

The TTR300 Series of three-phase transformer turns ratio test sets are designed to measure the turns ratio of power, instrument, and distribution transformers in a substation or manufacturing environment. A rugged and robust design makes these instruments well suited for use in a variety of harsh environments. Our leads are specially designed to provide the necessary flexibility needed in cold weather.

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# Megger MTO330

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## TRANSFORMER OHMMETER

The MTO 300 series delivers full eight-terminal/six-winding resistance measurement capability. It is designed to save time for the user by testing all normal 6 windings without having to disconnect and reconnect leads during testing.

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# Megger IDAX300

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## Insulation Diagnostic Analyzer

IDAX300 and IDAX350 provide an accurate and reliable condition assessment of insulation in transformers, bushings, generators and cables. The IDAX system maximizes the outcome of maintenance activities allowing for load and service life optimization. The IDAX350 has a built-in computer but can also be used with an external computer.

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# Megger FRAX101

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## Sweep Frequency Response Analyzer

The FRAX series of sweep frequency response analyzers (SFRA) detects potential mechanical and electrical problems that other methods are unable to detect.

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# Omicron CPC 100

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## Primary Injection Test System

The CPC 100 is the ideal test set for substation asset commissioning and maintenance. Electrical tests on power transformers, current transformers, voltage transformers, rotating machines, grounding systems, lines and cables, and circuit breakers can be performed with the CPC 100. CPC 100 primary injection test system replaces several individual testing devices. This reduces the costs for training and transport, and cuts down testing time. The CPC 100 is the base for multiple accessories. These facilitate further applications, such as power/dissipation factor measurements, as well as line and ground impedance measurements



# Omicron Tan Delta CPC 100 (CP TD 1)

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The CP TD1 accessory is used in combination with TESTRANO 600, CPC 100 or CPC 80 to perform power dissipation factor and capacitance measurements. It enables you to perform power/dissipation factor and capacitance measurements from 15 Hz to 400 Hz.

The CP TD1 includes a high-voltage source, reference capacitor and measurement electronics. It can generate output voltages up to 12 kV, currents up to 300 mA and achieves laboratory precision, even in environments with strong interferences.





# Omicron Switch Box (CP SB1)

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The CP SB1 is an accessory for the CPC100 and simplifies measurement of three-phase power transformers.

The transformer ratio and winding resistance are automatically measured in all three phases (in sequence) in all tap changer positions. The measurement results are recorded by the CPC 100 and can be analyzed with the accompanying software package.



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# Megger MRCT

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## CT & VT Tester

The Megger MRCT is used to perform demagnetization, ratio, saturation, winding resistance, polarity, phase deviation, and insulation tests on current transformers. The MRCT automatically calculates ratio errors, saturation curves, and knee points. The MRCT provides a microprocessor-controlled variable voltage and current output and precision instrumentation for automatically testing single and multi-ratio CTs, reducing testing time and increasing productivity. The MRCT will directly connect to multi ratio CT's and perform all tests – saturation, ratio and polarity, winding resistance and insulation – on all taps with the push of a button and without changing leads.



# Omicron CT analyzer

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The CT Analyzer automatically determines all relevant current transformer values and compares the results with the selected standard. The device evaluates the current transformer as per the IEC, IEEE or national/self-defined standards within seconds with the push of a button.

It facilitates fast and economical on-site testing and calibration of metering and protection current transformers. Manufacturers of current transformers, high-voltage transformers and switchgear also use the CT Analyzer for tests during development and production.

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# Megger FREJA 300

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## Relay Testing System & Simulation System

The Megger FREJA 300 relay testing system is a computer-aided relay testing and simulation system. The weight of FREJA 300 is only 15 kg. The rugged hardware design is built for field use over a wide temperature range, with the possibilities of intelligent software to perform rapid testing.

The very accurate (typically 0.01%) low level analogue inputs are designed for transducer measurements. The high level inputs can be used as a normal volt- and ammeter. FREJA 300 can generate 4 x 150 V (82 VA) and 3 x 15 A (87 VA) or 1 x 45 A (250 VA).





# Megger FREJ546

## Relay Testing System

FREJA546 is a multipurpose, light and portable relay test set. The unit can be operated either manually using the built-in touch-screen interface running FREJA Local, or placed under full computer control via the FREJA Win Software.

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# Megger SMRT410

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## Relay Tester (For Electromechanical, Solid-state and Micro Processor Based Relays)

The SMRT410 provides a complete multi-phase test system for commissioning of protection systems. With up to 4 voltage channels and 6 high currents, the SMRT410 meets every testing need. The SMRT410 VIGEN modules also provide high power in BOTH the voltage and current channels to test virtually all types of protective relays.

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# Megger SVERKER 780

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## Relay Testing Unit

The SVERKER750 and SVERKER780 Relay Test Set are the engineer's toolbox. The control panel features a logical layout, SVERKER 650 users will find it comfortably familiar and will be able to start work right away.

- The engineer's toolbox for all single phase relay testing!
- Stand-alone functionality
- Rugged and reliable for field use



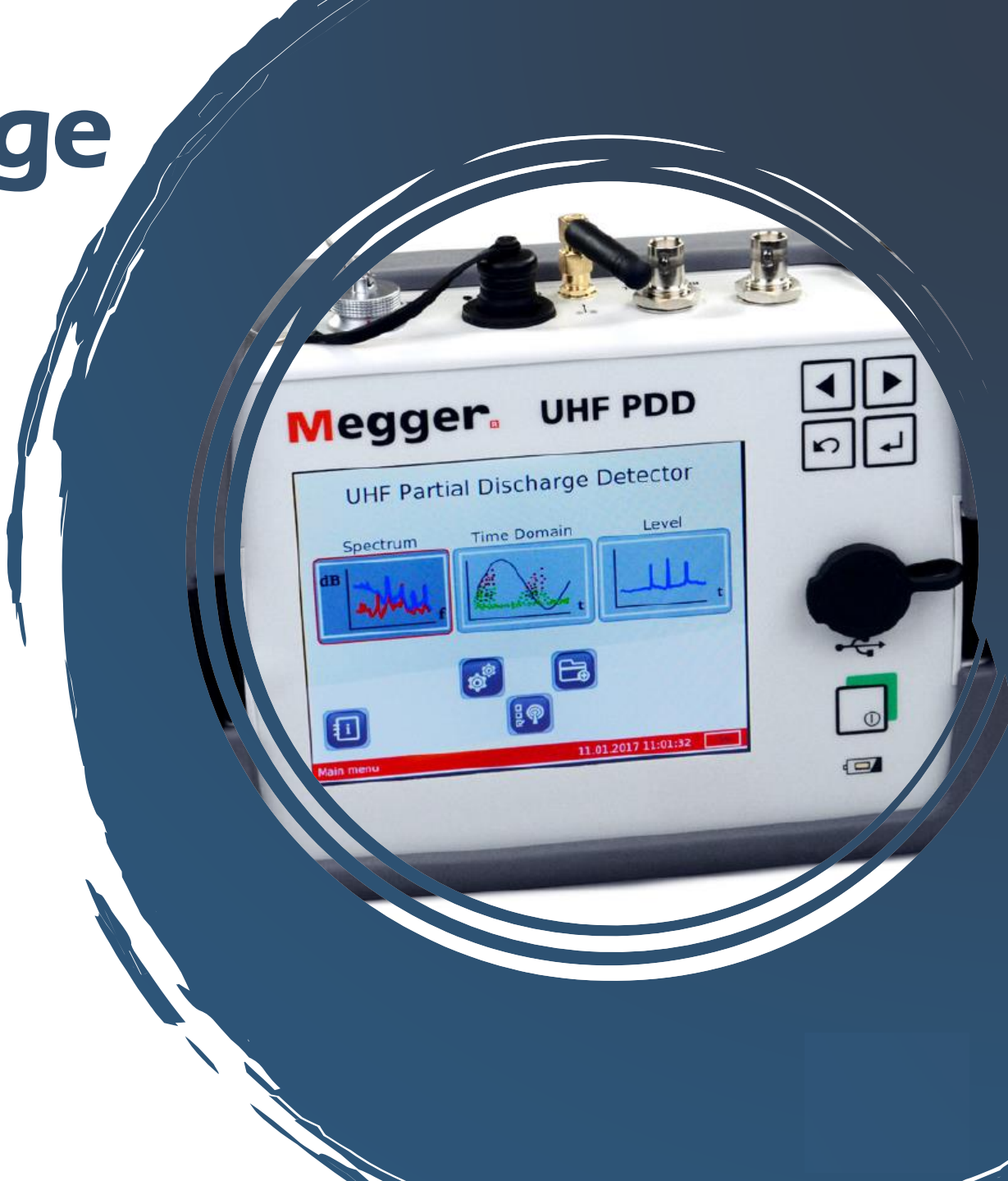
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# UHF Partial Discharge Detector

## Handheld online PD substation surveying system

The UHF PD Detector is the ideal tool for quick, non-invasive surveys in MV and HV substations. UHF measurements can accurately measure local online PD activity in frequencies above those of common disturbances. In addition, the high bandwidth together with PRPD (phase resolved partial discharge) pattern display, can categorise the different types of defect. Corona discharges and surface discharges can be easily distinguished from the dangerous internal partial discharges.





# Zera MT320

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## Three Phase Reference Meter

The MT320 is a portable Reference Meter based on newest technology in power and energy measurement. Various measuring features combined with its easy operation concept provide the greatest possible flexibility for a comprehensive testing of metering installations on site. Its stable housing made of double isolated plastic already reveals the high quality of the system.

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# Megger BE10

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## Power Supply Unit

- Reliable and stable a.c. and d.c.power supply for circuit breaker testing
- Continuously variable 24-250 V AC and DC output
- Separate outputs for close coil, trip coil and spring charging motor voltage
- Direct triggering for minimum trip voltage testing

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# Megger ODEN AT1S

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## Primary Current Injection Test System

This powerful test system is designed for primary injection testing of protective relay equipment and circuit breakers. It is also used to test the turns ratio of current transformers and for other applications that require high variable currents.

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# Megger TM1740

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## Circuit Breaker Analyzer System

The TM1700 series circuit breaker analyzers utilizes some of the ground breaking technology from the top of the line version TM1800. There are four models starting from PC-remote controlled to fully stand-alone. All models can be controlled from a computer using the well proven data management and analyzing software CABA Win.

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# Megger DLRO600

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## Ducter Digital Low Resistance (Micro ohm Meter)

Megger Ducter™ DLRO600 instrument can provide test currents from 10 amps up to 600 amps subject to the load resistance and supply voltage. A large liquid crystal display provides all the information needed to perform a test; all test parameters and measurement results are displayed.

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# Megger PMM-1

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## Power Multi Meter

The PMM1 is a portable, battery or line operated, multi-function measuring instrument designed to measure ac primary and secondary currents, voltage power, reactive power, phase angle and frequency of single and three-phase systems. A high speed recording feature can capture starting currents of three-phase motors. All measured values are displayed on a large easy-to-read graphic display. RS-232 data and parallel printer ports are provided.

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# Megger TORKEl 910

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## Utility Battery Load Unit

TORKEl 900 series is used to perform load tests or discharge tests which is the only way to determine a battery systems actual capacity. Tests can be conducted at constant current, constant power, constant resistance or in accordance with a pre-selected load profile. Together with the cell voltage logger, BVM, now connected directly to the TORKEl 900, it becomes a complete stand-alone discharge test system.

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# Megger BITE2P

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## Battery Impedance Tester

The BITE2 and BITE2P battery impedance test equipment determines the condition of lead-acid and nickel-cadmium cells up to 7000 Ah. An advanced feature set has been developed that includes Pass/Warning/Fail calculations based on a user-entered baseline value, advanced printing functions and more. The case of the BITE2P consists of both the transmitter and a carrying case for all of the standard accessories and some of the optional accessories, in an all-in-one unit. The BITE2 and its accessories fit into a sturdy canvas case with a shoulder strap.





# Megger - BGFT

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## Megger Battery Ground Fault Tracer

The Megger BGFT, (Megger Battery Ground-Fault Tracer) is an economical, manually-balanced instrument that identifies, tracks and locates ground faults in ungrounded dc battery systems - on-line. It is particularly effective in a high electrical noise environment, as the strength of the test current can be adjusted. The Battery Ground-Fault Tracer accelerates fault location by eliminating trial-and-error procedures and because faults can be located without going off-line. It is particularly useful in any industry where supply of power for operating measurement, communication and control equipment is critical.



# Megger MIT1025

## Insulation Resistance Tester, 10 KV

The MIT1025 is compact, light 10 kV insulation resistance tester for the diagnostic testing and maintenance of high voltage electrical equipment. As well as measuring insulation resistance to 20 TΩ, the MIT1025 also offers various diagnostic tests such as Polarization index, Dielectric Absorption Ratio, Step Voltage, Dielectric discharge and ramp testing.

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# Megger MIT525

## Insulation Resistance Tester, 5 KV

The MIT525 is compact, light 5 kV insulation resistance tester for the diagnostic testing and maintenance of high voltage electrical equipment. As well as measuring insulation resistance to 10 T $\Omega$ , the MIT525 also offers various diagnostic tests such as Polarization index, Dielectric Absorption Ratio, Step Voltage, Dielectric discharge and ramp testing.

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# Megger MIT515

## Insulation Resistance Tester, 5 KV

The MIT515 is the simplest of Megger's new range of small light 5 kV insulation resistance testers for the testing and maintenance of high voltage electrical equipment. The MIT515 equipped with lithium ion fast rechargeable batteries, the instrument has a large, clear, easy to read, display. Information displayed includes resistance, voltage, leakage current, capacitance, battery status and time constant. The elapsed time of the test is displayed constantly removing the need for separate timer.

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# MTEREL MI2883

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## Class S Power Quality Analyzer MI 2883 Energy Master

The MI 2883 Energy Master is a hand-held three phase power quality analyzer, specially designed for energy logging and subsequently efficiency calculation.

Energy Master serves as a perfect tool for long term logging and later post processing of recorded data.

- Checking power correction equipment performance.
- Long-term analysis.
- Predictive maintenance.
- Verification of electrical system capacity before adding loads.



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# Megger PSI700

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## PSI700 Phase Sequence Indicator

The Megger PSI-700 is a rugged, lightweight instrument used to determine the phase sequence or phase rotation of a three-phase system. It will also detect and identify an open phase.

- Rotation Indicator
- Easy to Use
- Indicates A, B or C phase

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# Dilo 3-033-R002

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## Gas leak detector

The cordless battery-operated device measures in six sensitivity levels within a very short response time. The device switches automatically to the next higher level of sensitivity for detection of larger leaks. It is possible to switch over the device to the most sensitive measuring range by simply pressing the corresponding key. The SF6 concentration is displayed next to the indication of the measuring range by an LED bar display and an audible signal

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# Dilo 3-037-R001

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## Portable Moisture Measuring Device

Moisture is the most important criteria for the determination of the gas quality. This device has been designed especially for SF<sub>6</sub> moisture measurements. It shows a higher resistance against contamination and SF<sub>6</sub> decomposition products than conventional moisture sensors and even minimizes the usual long-time drifting. The integrated electronic flow meter supports the minimization of the gas sample quantity and works independently of its position which is the optimum for gas sampling from circuit breaker. Pressure and temperature influences on the measuring result can be excluded. It is a reliable instrument which is indispensable.





# Dilo 3-558-R001

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## Digital precision gauge

The digital precision gauge allows precise determination of pressure in gas compartments. The connecting hose for measuring devices is equipped with a self-closing coupling so that no SF6 gas can escape into the atmosphere during the testing process. The device can be transported comfortably and safely in the handy plastic case.

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