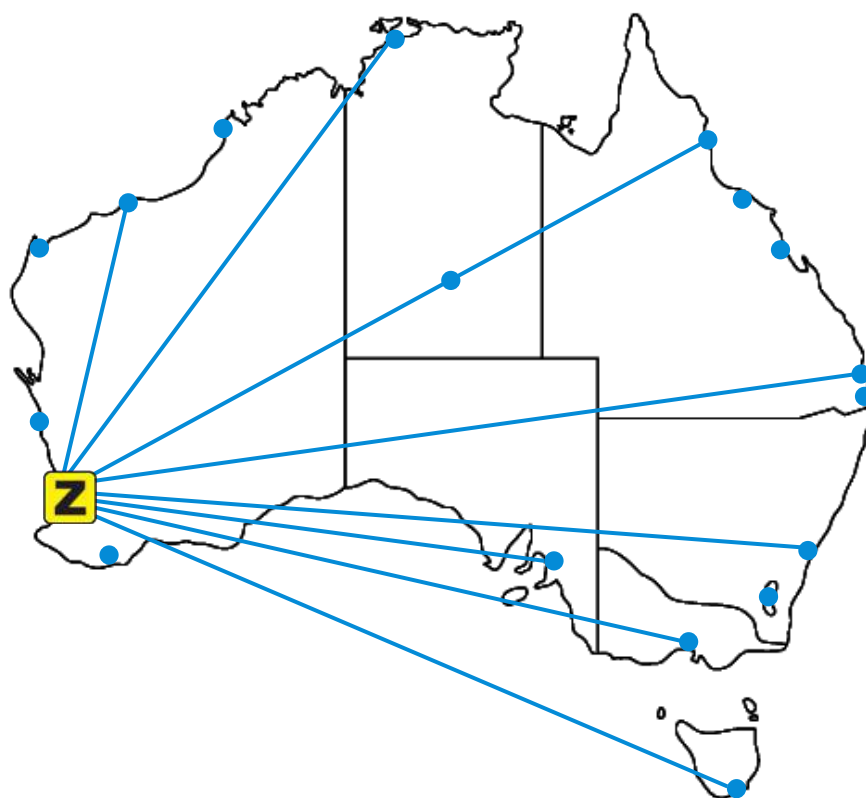


PRODUCTS GUIDE



*Excellence in Calibration
40 years - Est. 1982*

Australia wide shipping



*Excellence in Calibration
40 years - Est. 1982*

Zedflo Australia

08 9302 1266

U3/115 Excellence Drive, Wangara, 6065, WA

sales@zedflo.com.au - www.zedflo.com.au

The Zedflo advantage

- 40+ years of experience, Zedflo was established in 1982.
- Extensive range of products and stock kept right here in our warehouse ready for immediate dispatch
- We can provide training and demonstration sessions for many instruments, available in store or via a Zoom or Microsoft Teams meeting.
- Calibration services are in compliance with NATA accredited ISO 17025 standards. We have achieved some of the very best uncertainty of measurements in the country, we can look after all your ongoing calibration requirements for your equipment with fast turn around times.
- Servicing and repairs - Authorised and trained staff offering wide range of services. From fiddly pump refurbishment and seal replacing, to micro soldering PCB repair.
- Guarantee to offer professional, impartial advice for your calibration, test or measurement application



Zedflo Wangara store frontage



Training and demonstration area



Our warehouse



Calibration laboratory



Front office and showroom



History

For over 40 years (Since 1982), Zedflo Australia have been supplying process calibrators (pressure, electrical and temperature), electrical testers and field instrumentation to the oil & gas, process, mining, chemical and other major industries throughout Australia. Our long term industry partnerships empowers excellent service standards.



Quality

Zedflo provides calibration and repair services for most instruments we supply. We have a NATA accredited laboratory with some of the best uncertainties of measurement in the country. Our 40 years of experience in the industry means you get expert advice and ensures you get the best equipment for the job.



Fast & Easy

Our extensive stock holding of calibration and test & measurement equipment means fast delivery and less down time for our customers, Our expert advice ensures you get the best equipment for the job. Local pickup and fast delivery options are available, stocked product are usually dispatched same or next business day

Zedflo Company Profile

Zedflo Australia is a Western Australian company established in 1982 based in Perth. We are proud of the excellent reputation and strong relationships we have developed with industry over the last 40 years and continue to strive to build new relationships.

Zedflo offers NATA Accredited pressure and electrical calibration service and authorised service of Metrel and Additel products. Zedflo supplies a comprehensive range of process calibrators, electrical test & measurement, clamp-on ultrasonic Flow meters and process control field Instrumentation, providing solutions to the oil, gas, process, mining and chemical industries.

What brands do we represent?

- Additel – Process calibrators and digital gauges
- Baumer – Pressure gauges
- Besta – Level switches
- Cerlic – Waste water treatment & controls
- Dinel – Level and flow measurement
- East Hills instruments - Pressure calibration
- Gems Sensors – Pressure, level and flow sensors
- Gentos pFlow – Clamp-on ultrasonic flow meters
- ITT Neo-Dyn – Pressure & temperature switches
- Lucifer – Solenoid valves
- McDonnell Miller – Flow switches
- Metrel – Electrical test and measurement
- PCI – 316 SS filters, regulators & lubricators
- Permacal – Severe service pressure gauges
- Rotothem – Gauges and chart recorders
- Shako – 316 stainless steel solenoid valves
- Siemens – Flow and level instruments
- Tokyo Keiki – Clamp-on ultrasonic flow meters
- Weka – magnetic level indicators
- And more

Extensive stock of many products we range

Zedflo are one of Australia's largest stockists of test & measurement products. As we represent a large number of manufacturers, we are able to supply products directly from our extensive warehouse stock or on short lead times from our suppliers.



High spec calibration laboratory

We proudly offer calibration services with uncertainty of measurement capabilities among the best in Australia. We have invested in high-performance equipment across our laboratory, and are well prepared to meet most calibration needs. Our NATA accreditation is an independent testament to our attention to detail, commitment to working to international standards in quality and technical management and metrological traceability. Our in house facility means we can also look after all your ongoing calibration requirements for most of the products that we range.



Process Calibration & Test Equipment



Zedflo stocks one of the largest range of pressure test equipment in Australia, backed by the Additel corporation and various others we provide excellent products and support. We also operate a NATA accredited ISO 17025 calibration laboratory so we can manage all your ongoing calibration requirements.

Pressure gauges



- High accuracy reference test gauges
- Options for IECEx Intrinsically safe
- Options for datalogging
- IP67 versions available
- Various accuracies as low as 0.02% FS

Automatic Pressure Calibrators



- Fully automatic calibrators with built-in pump and controller up to 7,000 kPa
- Can be used with external modules as a calibrator up to 420MPa
- Handheld or portable models to select from
- Battery or mains powered

Pneumatic Hand pumps to 20MPa



- Various models available range dependant
- Hand tight quick test fittings available
- Excellent stability and resolution (up to 0.1pa)
- Handheld or benchtop operation models
- Light weight and minimal maintenance

Hydraulic Hand pumps to 420MPa



- Various models available range dependant
- Hand tight quick test fittings
- Quick pre pressurisation and stabilisation
- Models for use with oil or water
- Benchtop laboratory use models available

Temperature



- Temperature calibrators
- Temperature baths/dry blocks
- Liquid baths
- Various options to automate the process

Other



- Multifunction calibrators
- Loop/signal calibrators
- Documenting calibrators
- Primary & secondary calibration equipment
- Mechanical pressure recorders

Products in focus

Additel test & calibration equipment

ADT761A— PORTABLE AUTOMATIC PRESSURE CALIBRATOR

KEY FEATURES

- Fully automated pressure calibrator with built-in pressure generator / controller to as high as 7,000 kPa or as low as 0.01 Pa (0.00004 inH2O)
- Up to 0.02% full scale accuracy
- Dual pressure modules
- Portable and light weight (7.4kg)
- Built-in filter and liquid trap with vent prevents contamination of the calibrator



With a built-in high performance electronic pump and precision pressure controller, the 761A series portable automated pressure calibrators provide a turn-key solution for calibration of gauges, transmitters, and switches both in the field and in the laboratory. In a portable package, this calibrator can automatically generate pressures to 7,000 kPa or 7,100 kPa absolute with 0.005% FS pressure control stability and 0.02% FS accuracy.

ADT680 / ADT680W

KEY FEATURES

- Ranges from full vacuum up to 420,000kPa (420 MPa)
- Rugged design with rubber boot to protect itself in the field
- 0.05%, 0.1%, 0.25% full scale accuracy options
- Datalogging and wireless options
- IP67 dust and waterproof rated

The ADT680 and ADT680W are packed with modern features and simple functionality at a highly competitive price point. These models offer accuracies up to 0.05% so can be used as a high-spec calibration reference.

The ADT680W wireless model offers datalogging options, it can be used to log onboard and retrieve later with included free pc software, or you can upgrade the software to 9503 log II wireless software to view the log in real time on a nearby paired computer. This capability allows it to be used as an economic and versatile hydrotesting or leak testing device.



Log II Software

ADT681 / ADT681IS

KEY FEATURES

- Differential, absolute, gauge, vacuum and compound range options to suit your specific measurement needs
- Ranges from full vacuum up to 420,000kPa (420 MPa)
- 0.02%, 0.05%, 0.1%, 0.2% FS or 0.1%RD accuracy options
- Datalogging and real-time live logging available.
- IECEx Intrinsically safe (optional, IP67)

The ADT 681 is a versatile, customisable gauge designed to meet the needs of even the most bespoke pressure measurement applications. Additional options available (compared with the ADT680/w) are the inclusion of absolute differential and compound pressure measurement, IECEx, up to 0.02% accuracy, and panel mount configurations.



More popular calibration equipment models

ADDITEL CALIBRATION EQUIPMENT | PNEUMATIC AND HYDRAULIC PUMPS OPTIONS

ADT901A Pneumatic pressure pump



- Generate vac -40 kPa to 40 kPa
- Portable, only 1.6KG
- Great stability and high resolution (0.1pa)
- Minimal maintenance
- Hand-tight quick connectors

ADT912A Pneumatic pressure pump



- Generate vac -95 kPa to 400 kPa
- Hand-tight quick connectors
- Handle for rapid pre-pressurisation, then two stages of fine adjustment. This pump also uses an isothermal bellows chamber so the pump provides incredible stability and adjustment resolution (0.1pa)

ADT914/916/917/918 Pneumatic pumps



- Pressure ranges -95 kPa to 10,000 kPa
- Portable, only 1.5KG to 2.7KG
- Impressive stability and resolution (0.1 mbar)
- Quick to pre-pressure
- Hand-tight quick connectors

ADT919/920 Pneumatic pressure pumps



- Pressure ranges -95 kPa to 20,000 kPa
- High pressure range with no need for oil use
- 0.1 mbar adjustment resolution
- Very stable for this pressure
- Hand-tight quick connectors

ADT927/928 Hydraulic pressure pumps



- Generate up to 100,000 kPa
- Suitable for use with oil or water
- 1 mbar adjustment resolution
- Light weight and portable, only 3.2 to 3.9KG
- Hand-tight quick connectors

936/937/938/949/959/960 Hydraulic pumps



- Generate -86 kPa vac to 420 MPa
- 1 mbar adjustment resolution
- Models suitable for oil or water
- Multiple quick test connectors for multitasking
- Options for using external source to boost

EAST HILLS CALIBRATION EQUIPMENT | HAND HELD SCISSOR STYLE PRESSURE PUMPS

MVP600 Pneumatic pump



- Pneumatic pressure and vacuum to check calibration of gauges, switches, transmitters, and recorders.
- Vacuum -95 kPa to 4,000 kPa
- Connections (2 ports) 1/4" and 1/8" NPT/BSP
- Light weight at around 0.9kg

M10 Hydraulic pump



- Hydraulic calibration hand pump utilizes a fully adjustable stroke control to allow for quick priming, easy pumping, and fast pressure generation up to 70,000 kPa.
- Connections (2 ports) 1/4" NPT/BSP
- Shatter proof reservoir and SS construction

ADDITEL CALIBRATION EQUIPMENT | DRY WELL TEMPERATURE CALIBRATOR

ADT875/878 Dry well calibrators / furnaces



- Eight models ranging from -40°C to 1210°C
- Portable, rugged, and quick to temperature
- Colour touch screen display
- Self-calibration feature
- Remote control by Bluetooth or Wi-Fi



Products in focus

Popular Additel calibration equipment

ADDITEL CALIBRATION EQUIPMENT | TEMPERATURE CALIBRATION EQUIPMENT

ADT282 Reference thermometer



- Reference level accuracies
- Dual measurement channels
- RTD and TC Inputs
- Smart style probe connections
- Large smartphone like touchscreen
- Differential measurement technology

ADT226/227 Multifunction process calibrator



Designed for sourcing, simulating and measuring pressure, temperature and electrical signals, the new multi-function process calibrator series takes portability, functionality, and accuracy to a whole new level and packages it with an intuitive and easy to use colour touchscreen display. These powerful yet cost effective process calibrators have IECEx certified intrinsically safe and HART options allowing you to perform calibration work in the harshest of environments.

ADT850 Laboratory thermocouple calibration furnace

Thermocouple calibration work can be challenging, Additel understand the difficulties of this type of work. The new ADT850 laboratory thermocouple calibration furnace is packed with features and a performance you will not find anywhere else. The ADT850 horizontal furnace covers a range of 300 to 1200°C and is commonly used in a multitude of industries such as energy, calibration laboratories, aerospace and metallurgy to name a few. It is generally used by primary and secondary calibration laboratories to calibrate noble and base metal thermocouples with the lowest possible uncertainties. Additel's ADT850 is the most accurate, stable and versatile furnace available!



ADDITEL | NEW RANGE OF ADVANCED DIGITAL GAUGES

ADT685/ADT685EX

- Pressure ranges up to 420,000 kPa (420 MPa)
- 0.02%, 0.05%FS or 0.1%RD accuracy options
- Fully temperature compensated accuracy
- Every model measures gauge or absolute pressure
- Built-in barometer
- Touchscreen display
- IECEx Intrinsically safe version 685Ex (optional)
- Bluetooth and USB communications
- Data logging (optional)
- IP67 rated
- Communicates with Additel Link mobile app
- ISO 17025-accredited calibration included



ADT686

The new ADT686 utilizes a modern smart phone like interface with which brings a new and refreshing experience to pressure calibration work, additionally the handy Additel link app gives users the ability to remotely monitor these gauges from the convenience of your mobile phone. With an abundance of options to choose from, you can configure these pressure gauges to precisely fit your specific pressure calibration and measurement needs. With an IP67 rating, you will find that these amazing pressure gauges can be used in the field or laboratory to meet the most demanding pressure calibration needs.

- Pressure ranges up to 420,000 kPa (420 MPa)
- 0.02%, 0.05% FS or 0.1% RD Accuracy
- Colour touchscreen display
- Every model measures gauge or absolute pressure
- Built-in barometer
- Intuitive smartphone like interface
- ISO 17025-accredited calibration included
- Data logging and Wi-Fi (optional)
- IP67 rated



Products in focus

Popular Additel calibration equipment

ADDITEL CALIBRATION EQUIPMENT | PRESSURE CALIBRATORS

ADT760 Handheld automatic calibrator



- Fully automatic calibrator with inbuilt pump and controller
- Switchable internal pressure modules
- Accuracy up to 0.02% FS
- Less than 1.8KG
- Very fast and easy to use

ADT673 Digital calibrator with HART



- Intuitive Smartphone Like Interface
- Pressure ranges to 420 MPa
- Various accuracy options up to 0.02% FS
- Pressure switch test function
- 24V loop power capable & HART (optional)

ADDITEL | NEW RANGE HANDHELD DIGITAL PRESSURE CALIBRATORS

ADT260Ex Handheld Multichannel Reference Recorder

Additel's 260Ex is an intrinsically safe handheld multichannel reference recorder with 8 different channel configurations.

Armed with Additel's most versatile and capable handheld, technicians are now able to measure and collect data for pressure, temperature (RTD probes available), barometric pressure and electrical measurement all in one highly portable device.

- Up to 8 measurement channels
- IECEx intrinsically safe
- Field Switchable Pressure Module
- Data logging with Real-time Graphical Trending
- Supports Hydrostatic Testing
- Colour Touchscreen Display
- Built-in Barometer
- Optional RTD Probes Available
- Bluetooth and USB Communication
- Communicates with Additel's Link Mobile App



AD273Ex Handheld Pressure Calibrator

Additel's 273Ex is an Intrinsically safe handheld multifunctional pressure calibrator with a colour touchscreen, smartphone like interface, built-in quick test tasks and optional HART communications capability. This innovative Additel product drastically improves explosion-proof field testing and calibration. The Additel 273Ex has a built-in atmospheric pressure sensor, so that absolute pressure and gauge pressure are easily facilitated.

- 0.02%, 0.05% FS Accuracy
- IECEx Intrinsically Safe
- Field Switchable Pressure Module
- Dual Digital Pressure Module Inputs
- Colour Touchscreen Display
- Built-in Quick Test Task Feature
- Built-in Barometer
- Intuitive Smartphone Like Interface
- Bluetooth and USB Communication
- Optional HART Communication
- Communicates with Additel's Link Mobile App



Intelligent Digital Pressure Modules for ADT260 and ADT273

Field switchable pressure modules for use with Additel 273Ex and 260Ex handheld devices

- Pressure ranges up to 420,000 kPa (420 MPa)
- Pressure measurement accuracy up to 0.02% FS
- IECEx Intrinsically Safe
- Fully temperature compensated accuracy
- ISO 17025 accredited calibration and data included
- Plug in external digital pressure modules available



Electrical Test & Measurement



We stock a wide range of Metrel products. Metrel have established themselves as a market leader of measuring and testing equipment through years of experience and have appointed Zedflo as an authorized distributor, repair and calibration center. We can tailor a testing package for your requirements.



Electrical installations safety

- Testers suitable for checking electrical installations
- We stock common models in the Australian market such as MI 3155XD, MI 3152XC, and MI 3125



Portable appliance testers (PAT)

- The Metrel DeltaPAT 3309BT is a best selling Appliance tester in the Australian Market, we offer this in various forms including the option to have a complete kit with printer for instantly printing custom pass/fail tags
- We also stock the new OmegaPAT which has an inbuilt touch screen and 25A earth bond



Earth testers

- Portable, battery or mains powered
- Perform all types of earth measurements
- We offer various models depending on your requirements, these typically come in sets to suit your application



Insulation testers

- Various models available range dependant, up to 10kV
- Battery powered with Class A accuracy
- Robust units with CAT IV protection
- Suited for use in an industrial environment



Power analysers

- Voltage and power quality analysis
- Discover voltage sags and swells, resonant states, high neutral conductor currents, asymmetry harmonics and transients
- Selection of models to suit your requirements



Other instruments

- Digital Multimeters
- Clamp meters and voltage probes
- Photovoltaic Testers
- MicroOhm meters
- Equipment for laboratories and schools

Products in focus

High voltage Test & Measurement equipment

METREL COMPANY PROFILE

Metrel was established in 1957 as a factory for the production of electrical measuring instruments and components for the domestic market and grew from there to become one of world's leading manufacturers of measuring and testing equipment. Metrel are one of the few companies in the industry that develops and manufactures products at a single location, starting with design and ending with final assembly, quality control and calibration.

An important component of the Metrel philosophy is also taking into account customer's needs and desires and using that when designing new products and upgrading older ones. Metrel is dedicated to giving our customers, technicians, engineers, safety inspectors and device manufacturers the best tools for the job and take pride in being at the cutting edge of measuring and testing technology. Advanced, dependable, rugged and accurate are just some of the terms used in conjunction with Metrel products.

Zedflo is the Australian importer, we stock a large selection of the Metrel test & measurement range, we are also an approved service and calibration centre so can look after your ongoing calibration requirements

POPULAR OPTIONS

METREL MI3290 | EARTH ANALYSER

KEY FEATURES

- Possibility of performing all types of earth measurements with a single instrument
- Analysis of earth impedance as a function of the frequency due to a wide measurement frequency band (55 Hz ... 15 kHz)
- A wide variety of measuring clamps: from iron clamps to flex clamps 10m long
- PC software for measurement pre and post processing

MI 3290 Earth Analyser is a portable, battery or mains powered test instrument with excellent IP protection, intended for measurement of earth resistance, specific earth resistance and earth potential of various energetic and non-energetic objects. The user can choose between different methods from classic 3 wire earth resistance measurement up to one or four clamp method for measurement of pylons. choice of measurement methods with different frequency methods: single frequency or frequency sweep from 55 Hz to 15 kHz, HF method with 25 kHz and pulse method simulating the lightning strike. High electrical noise immunity makes this instrument best suited for industrial environment. Instrument is available in various sets to suit different applications.



METREL MI3210 | TERAOHM XA 10KV INSULATION TESTER

KEY FEATURES

- Insulation resistance up to 20 TΩ
- Adjustable test voltage (50 V...10 kV) 50 V and 100 V step
- Mains and rechargeable battery power supply
- PC software for the stored results can be downloaded to PC where they can be reviewed, analysed and reported

MI 3210 TeraOhm XA 10 kV is a portable, battery or mains powered test instrument with excellent IP protection (IP65), intended for diagnosing of Insulation Resistance by using high DC test voltages of up to 10 kV. It's robustness (CAT IV protection) and high immunity to radiated RF fields make it ideal for industrial environments.

APPLICATIONS: • Power transformers • Measuring transducers in distribution networks • Testing insulation resistance of rotating machinery and cables • Production line periodic testing and maintenance • Troubleshooting and analysis of all kinds of insulation problems • High voltage generators • Surge arrestors



Products in focus

Other popular high voltage test equipment

METREL | MICROOHM METERS

MI 3252 MicroOhm 100A



- Resistance measurement with adjustable test current (100 mA ... 100 A)
- Voltage drop measurement
- Accurate: 1 nΩ best resolution with 0.25% of reading accuracy
- Portable: rugged carrying case

MI 3250 MicroOhm 10A



- Bidirectional resistance measurement from 0,1μΩ — 2000Ω with current to 10A
- On screen resistance bar graph.
- Battery powered, more than 1000 measurements with 10 A test current can be performed from 1 charge
- Portable: lightweight 3 kg design

METREL | INSULATION TESTERS

MI 3205 TeraOhmXA 5kV



The MI3205 has a portable battery (Li-ion) or mains powered test instrument with excellent IP protection (IP65 case closed and IP54 case open), intended for diagnosing of Insulation Resistance by using high test voltages of up to 5 kV. It is designed and produced with the extensive knowledge and experience acquired through many years of working in this field.



- Insulation resistance up to 15 TΩ
- Adjustable test voltage (50 V...5 kV) 50V and 100V step
- High voltage breakdown detection
- PC software for analysing results
- Custom defined tests
- High quality accessories

METREL | STEP VOLTAGE AND EARTH ANALYSIS

MI3295 Step contact voltage measuring



- High accuracy of the measurements due to a high current of up to 50A
- Autonomous Step Voltage meter
- Weight of the Station is only 29.5 kg
- Excellent noise immunity

MI3280 Windings & ratio analyser



- Turn ratio measurement single and three phase transformers, phase deviation, winding resistance measurement
- User friendly menu driven operation
- Built in help reference screens
- Hard case with excellent IP protection

METREL | POWER QUALITY METERS

5 models to suit your budget and requirements



MI 2893

The Metrel power quality analysis range allows automatic voltage and power quality analysis, they can be used as a troubleshooting and maintenance tool to discover voltage sags and swells, resonant states, high neutral conductor currents, asymmetry harmonics and transients.

The **MI 2883 Energy Master** is the most basic and economically priced version Single & 3 phase power quality analyser, it offers basic operation with 3 voltage measuring inputs. Next in the range is the **MI 2884 Energy Master** which while still being economically priced it adds waveforms and transients recording. Next in the line is the **MI 2885 Master Q4** which adds the extra functionality of 4 voltage inputs, waveform recording, inrush currents and variable frequency drives, as well as extra comms ports and GPS synchronisation. The **MI 2892 Power Master** is a class A 0.1% option

and introduces transients measurement at >49,000 samples/sec and includes temperature measurement as standard.

Then finally the new top of the range **MI 2893 Power Master XT** improves the sampling rate to >1,000,000 samples/sec. These units can be used for long-term logging to uncover hard-to-find or intermittent issues at a site and can later be analysed with included PC software.



Other product categories

Metrel test tools and popular models

METREL | ELECTRICIAN ESSENTIALS - NON CONTACT VOLTAGE DETECTORS

Electrician essentials:

MD106, MD116 and MD126 Non-contact voltage detectors:

- Quick checking for live voltage on wires, sockets, switches and energized circuits
- Pocket sized with a tough case boasting an IP65 rating.
- Phase rotation (on MD126 model)

The **MD1160** two-pole voltage detector supports:

- Voltage measurement
- Continuity measurement
- Single pole test
- Phase rotating field test
- LED Torch function for dark areas.



METREL | CLAMP METERS



While most electricians prefer multimeters as their go-to troubleshooting tool for quick current and voltage measurements, some individuals, particularly those who work with high current electrical equipment and installations, don't go to work without a clamp meter in their pocket. The benefits of the latter are obvious, the chief ones being the ability to measure current without breaking the circuit.

Metrel has several clamp meters in its product portfolio, differing mainly in the jaw size and highest current they can measure and advanced functionalities some of them have. These include the ability to measure both AC and DC current (with additional test probes), temperature (with additional temperature probe) and 3-phase power and energy.

METREL | THERMAL CAMERAS



Troubleshooting of electrical installations and equipment takes many forms and doesn't necessarily include testing or measuring electrical quantities, analysing various performance parameters and indicators or physical access to either. Many faults such as overheating of various components can be easily identified using thermal imaging equipment, i.e. thermal cameras.

Metrel has three distinct thermal cameras in its product portfolio, ranging from the most advanced dedicated thermal imager (**MD 9030**), a more basic imager with good performance-price ratio (**MD 9010**) and a combination troubleshooting tool, which unites a thermal imager and a multimeter in a single device. (**MD 9880**)



METREL | MULTI METERS

Digital multimeters are an indispensable part of any electrician's toolkit since they are a handy tool anytime a quick voltage, current or resistance measurement is needed. Modern multimeters of course support many more measuring functionalities, including diode testing, signal frequency measurements and true root mean square (TRMS) measurements.

Metrel offers a wide range of different multimeter models, all suitable for virtually any general purpose or hobby work, while some more advanced models support measurements with expanded measuring ranges (in comparison with basic models) or functionalities not commonly found in multimeters. The latter includes earth continuity and insulation resistance measurements.

Metrel's wide range of models means there is a model to suit all budgets and requirements, below are some popular models.

MD 9040 Industrial DMM



- Measurement functions includes: AC/DC voltage and current, acoustic continuity, resistance, capacitance, diode test
- TRMS measurement
- Switchable between auto and manual ranging
- Data Hold: data hold feature freezes the display

MD 9070 Industrial DMM with Insulation test



- Measurement functions includes: AC/DC voltage and current, acoustic continuity, resistance, capacitance, diode test, temperature measurement, Insulation resistance, earth bond/continuity
- TRMS measurement
- Insulation resistance measurement (up to 1kV)

Products in focus

Popular models

METREL | MI3288 EARTH INSULATION TESTER

MI 3288 Earth Insulation Tester is a portable, battery powered test instrument with excellent IP protection. It can measure earth resistance, specific earth resistance, earth potential, step and touch voltages, insulation resistance and continuity of protection conductors of various energetic and non-energetic objects. The MI 3288 Earth Insulation Tester also supports 4-wire earth resistance measuring method in combination with one clamp, two clamps earth resistance measurement, 4-wire specific earth resistance measurement and TRMS current measurement. With the option to measure earth potential, step and touch voltage it is a truly versatile tester. It can even test the breakdown voltage of overvoltage protection devices.



METREL | MI3281 WINDING RESISTANCE ANALYSER

The MI 3281 Winding Resistance Analyser (WR Analyser) is a portable test instrument intended for diagnosing of winding resistance of single and three phase transformers with manual or automatic tap changer test and demagnetization of tested transformer. Selectable test current in range from 10mA to 20A. The operation is straightforward and clear to enable the user to operate the instrument without the need for special training. For advanced users the AUTO SEQUENCES and visual tests are available.

APPLICATIONS: • Three phase and single phase power transformers • Voltage transformers
• Current transformers.



METREL | MI3325 MULTIFUNCTION SWITCHBOARD & ELECTRICAL TESTER

- Ideal system for a range of testing including switchboard and PAT testing
- High resolution colour touch screen, 4.3" TFT.
- Pre-defined AUTOSEQUENCE@s: enable the user simple and quick execution of test sequence for the chosen device **in accordance to AS61439**
- Hi-pot: high voltage AC (5.1 kV @ 250 VA)
- Advanced memory organizer including large SD card storage media



METREL | MI3155 INSTALLATION TESTER & EVSE ADAPTOR OPTIONS

MI3155 multifunction installation tester is Metrel's newest flagship instrument and is designed specifically for testing in industry. It's ergonomic design and an intuitive user interface via a large colour touch screen display puts it ahead of the rest while encompassing a memory organizer and fully programmable auto sequences. The auto sequences allow simple and quick execution of test sequences in accordance to AU/NZ 3017 standards.

Application Note: Electric vehicles are becoming mainstream, raising the need for comprehensive electrical safety testing of charging Stations. Metrel's **A1632** eMobility Analyser is a stand alone model or can be automated in conjunction with Metrel's new generation installation testers. Metrel also make the **A1532** EVSE adaptor for using with most brands of installation testers for basic testing of charging stations. Both are ideal additions to electricians currently using installation testers and looking to expand their capability to e-station (electric car charger) testing.

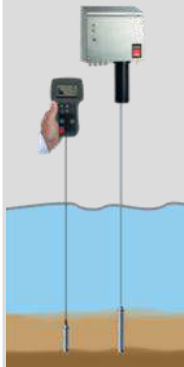


Water & Wastewater treatment



Zedflo have partnered with some of the biggest and best names in the water treatment industry, including Cerlic who is a Swedish company founded in 1977. “Our objective at Cerlic is to contribute globally to minimize pollution to lakes, rivers and seas by developing, manufacturing and implementing measuring and control instrumentation that makes industrial and municipal processes more efficient”

CBX Automatic Sludge Blanket Monitor



- Uses reliable suspended solids technology
- Early warning of settling problems in the clarifier
- Measures both 'blanket' and 'fluff' levels for better control of clarifier
- Prevention of sludge wash out, alleviates effluent TSS problems
- Blanket can be more accurately controlled which gives more consistent RAS concentrations
- Higher and more consistent RAS/WAS concentrations helps dewatering operate more effectively
- Real time measurement, 24 hours per day, 365 days a year

Multi-Tracker Portable Monitor



- Quick and reliable measurement of sludge blanket/profile, suspended solids and dissolved oxygen
- Built in log up to 250 measurements
- Large graphical display and PC sync

CMC Microwave Suspended Solids



- Low installation and ongoing lifecycle cost
- Single point calibration for all solids
- Not effected by process and media changes
- Reliable and accurate with wide TS concentration range, up to 30% TS

Other instruments



- Cerlic O2X DUO dissolved oxygen sensor
- Cerlic pHx (pH) & ReX (ORP or redox) sensors
- Centralised Transmitters / Sensor Controllers
- Suspended / Total Solids Sensors



Level Indicators & Switches



We distribute a range of level indicators, switches and transmitters for every application, including the measurement of corrosive liquid levels, and of liquids under pressure. We have a world class selection of instruments to offer from the most trusted manufacturers.



Magnetic Level Indicators

- Versatile, high visibility, made under license here in Australia to customer specifications
- Selection of wetted materials to suit the application with chambers up to 6m
- Side or top mount with switch outputs
- Flanged, screwed or custom fittings



Float Level Switches

- 316 Wetted parts standard
- ANSI flange optional
- Plastic options available for corrosive applications
- Hazardous area versions available



Ultrasonic Level transmitters

- For continuous non-contact level measurement of liquids (even if polluted)
- Easy configuration and adjustment of min and max measuring range by two buttons
- Current or voltage outputs
- Threaded or flanged versions available



Capacitive Level Transmitters

- Miniature capacitive level sensor for sensing various types liquids
- Direct mounting into various containers, vessels, tanks, etc.
- High temperature performance



Hydrostatic level transmitters

- For continuous level measurement of clean, lightly soiled, or sludge water in non-pressure reservoirs, boreholes, tanks etc.
- Precise customer choice of the measurement range up to 100m
- Current or voltage outputs



Other instruments

- Radar level sensors
- Capacitive point level switches
- Conductivity point level sensors
- Options for Hazardous areas

Flow meters

Ultrasonic and inline



Zedflo stocks a range of economical to advanced clamp on flow meter options depending on your budget and measurement requirements. There are wall mount, portable, and fixed inline models with various options such as data logging, high temp transducers, 4-20mA outputs to integrate with BMS systems and more.

Product in focus - pFlow P117



The P117 portable ultrasonic flowmeter features state of the art advanced non-invasive technology which enables the user to check flow rates at many points in a flow process without the need for a permanent installation. It is clamped to the outside of the pipe without the need to cut into or stop the process.

This flow meter's compact size, light weight ergonomic handheld design and intuitive interface significantly simplifies setup. The unique clamp-on fixture design makes the installation very simple, requiring no special skills or tools. It includes onboard data logging which could be used for applications like leak detection over time, to find intermittent faults in a flow process, or flow measurement surveys. This flow meter offers high precision, reliability, and capability at an economical price point.

FEATURES:

- Inbuilt rechargeable battery (up to 10 hours run time)
- 3.5" TFT backlit digital display
- Data logging - Large capacity memory and data download function.
- Due to the non-invasive nature of clamp-on transducers, there is no pressure drops, no moving parts, no leaks, and no risk of contamination.
- Lightweight and easily transportable in rugged carry case
- For measurement of clean liquids (not clear, so even oils can be measured)

Ultrasonic flow meters

Popular models at a glance

pFlow

ULTRASONIC CLAMP ON FLOW METERS

pFlow P117



- Compact, hand held design
- Battery operated up to 10hr run time
- Simple configuration and data logging
- Works with most clean liquids, with flow velocities up to 6 m/s
- Works on pipe sizes from 25-1200mm

pFlow P118



- Compact, hand held design, advanced model
- Battery operated up to 10hr run time
- Simple configuration and data logging
- Works with most clean liquids, with flow velocities up to 12 m/s
- Works on pipe sizes from 15-6000mm

F3 Mini direct mount smart flow meter



NEW

Another new product from the pFlow range of ultrasonic flow meters is the F3 mini. This flow meter is a highly compact all in one direct one mount flow meter.

These are to suit small pipes and ordered to specific pipe sizes ranging from DN20 to DN80. Its smart meter capability includes cloud data storage and analysis.

pFlow D118



- Fixed wall mount design
 - More advanced and more functions and capability over D116
 - Works on pipe sizes from 25mm to 5000mm
 - Non intrusive, clamps outside of pipe
- ⇒ Also consider the economical D116

TOKYO KEIKI

ULTRASONIC CLAMP ON FLOW METERS

Tokyo Keiki UFW-100



- Wall mountable for permanent installs, water proof and made in Japan
- Simple menu driven configuration
- Variety of outputs
- High accuracy as low as 1%
- Pipes 25mm to 600mm

Tokyo Keiki UFP-20



- A Portable, water and dust proof unit which is made in Japan, renowned reliability
- Simple menu driven menus
- Variety of outputs
- High accuracy as low as 1%
- Pipes 13mm to 5000mm

SIEMENS

ULTRASONIC CLAMP ON AND INLINE MAGFLO METERS

Siemens FS230



- Wall mount enclosure, 1- or 2-path
- IP66/67, NEMA 4X rating
- IECEx option
- Market-leading accuracy and repeatability, accuracy of 0.5 to 1%
- Pipe sizes from 12.7 mm to a massive 10m

Siemens FS220



- Provides the most essential flow measurement functionalities, an economical option over the FS230 with ease of use.
- Single Channel
- IP65 (NEMA 4X)
- 1% accuracy for velocities ≥ 0.3 m/s

Siemens SITRANS MAGFLO

Inline options suitable for all water applications such as ground water, drinking water, cooling water, waste water, sewage or sludge, used in conjunction with a transmitter which is engineered for high performance, easy installation, commissioning and maintenance. The transmitters are truly robust, cost-effective and suitable for all-round applications.



- Electromagnetic technology
- High-precision volume measurement
- Accuracy up to 0.2%
- Drinking water approvals
- Welded or flanged mounting options
- Direct or remote mount transmitter options

Flow sensors

Indicators & switches



Our range of flow sensors, indicators & switches come from the worlds top manufacturers Gems, McDonnell & Miller, AW-LAKE and Dinel. They are suitable for use in a wide variety of applications, including water treatment systems, pumps systems, cooling systems and many more. We can cater to most applications, contact us today.

Variable area flow meters



- Ideal for monitoring pump performance and oil or water flows
- Low cost alternative to other flow meters
- Aluminium, brass or stainless steel bodies
- Maintenance-free performance

Straight-Through Flow Switches



- Accurate flow detection, with up to 1% repeatability over a broad range of flowrates
- Durable construction for long-life reliability
- Generous flow paths for low pressure drop
- An ordinary, flat-blade screwdriver is all that's required for the actuation adjustment

Open Channel Ultrasonic Flow Meter



- Measures flow rate in an open channel
- Combines an ultrasonic flow rate meter with a microwave level gauge
- Accurate & stable flow rate
- Suitable for use on agricultural water, river water, process water & industrial effluents

Paddle and Diaphragm Flow Switches



- Switches to sense liquid flow in either direction to monitor flow/no-flow conditions
- Trim down paddles that a user can cut to size
- As flow increases in a pipe, the paddle of the switch pivots to move out of the liquid path
- Minimal pressure drop

Visual Flow indicators



- Paddlewheel design with high visibility rotors
- Simple, direct and reliable
- Accurate flow rate output
- Various port size options available
- Body: Brass, Stainless Steel or Polypropylene

Thermal Dispersion Flow Switches



- For limit and continuous flow rate sensing of liquid media and monitoring of temperature
- For installation inside of pipes
- Flow rate measurement is shown by LED's
- Outputs available such as 4-20mA

Pressure Temperature and switches



Zedflo specializes in supplying high quality pressure gauges to the Australian oil, gas, mining and chemical industries. We stock pressure gauges and process calibration equipment from leading international manufacturers, such as Perma-cal and Neo-Dyn, all of which are designed to offer high performance and operational reliability.

Industrial Pressure Gauges



- Helical bourdon tube for severe service use
- Process & Test Gauges (various accuracies)
- Diaphragm Seal Option
- Differential Pressure gauge options
- Perma-cal gauges are made in the USA

General use Pressure Gauges



- Large selection of stock available
- Most with stainless steel wetted parts & case
- Available in many common fittings
- Lots of pressure range options to suit your application

Pressure Switches



- Ideal for high vibration and processes with pulsations or spikes
- Variety of wetted materials
- Differential Pressure switches
- ANSI Flanged and sanitary connections

Temperature gauges



- Direct mount and capillary
- Bi-metallic or filled thermal systems
- Bottom, back or any angle entry
- Available with various dial sizes and fittings

Temperature switches



- Direct mount and capillary
- Ideal for high vibration applications
- Direct mount and capillary
- Weather proof or explosion proof
- All 316 stainless steel construction available



Baumer



ITT Neo-Dyn®

Process Solenoid valves & Air control



We stock a range of process control equipment from stainless steel solenoid valves, compressed air condensate drains, filter regulators and more. We can organize quick and efficient delivery anywhere in Australia. Designed for high performance and long operating life, our industrial range is suitable for use in extreme working conditions.



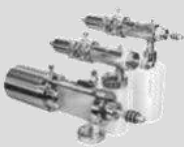
Solenoid Valves

- 2, 3 & 5 port
- NAMUR
- Stainless steel or brass
- Hazardous area approvals
- High pressure applications



Compressed Air

- Electronic condensate drains
- Provides no loss of compressed air when draining
- Air/Oil separators
- Filters



Process samplers

- Liquid & Slurry Samplers designed for use across a variety of industries such as process sampling, petrochemicals, mining, waste and effluent, pharmaceuticals and food.
- Powder samplers suitable for almost any powder or granule stream
- Various sizes are available and custom designs are possible



316 Stainless Steel Filter Regulators

- FRL (Filter, Regulator, Lubricator) in 316 or 316L stainless steel
- Inlet pressure to 4500 kPa
- Sizes up to 1 inch
- Manual or auto drains available



Calibration & Repair Services



We proudly offer calibration services with uncertainty of measurement capabilities among the best in Australia. We have invested in high-performance equipment across our laboratory, and are well prepared to meet most calibration needs. Our NATA accreditation is an independent testament to our attention to detail, commitment to working to international standards in quality and technical management and metrological traceability.



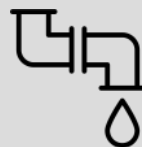
Pressure (NATA accredited)

- Analogue pressure gauges
- Digital pressure gauges
- Pressure transmitters
- Pressure transducers
- Pressure calibrators
- Pressure switch setting
- Pressure recorders
- Pressure modules



* Temperature (traceable only)

- Temperature calibrators
- RTD's
- Temperature gauges/Thermometers
- Thermocouples to 1200c
- Temperature probes, drywell's & more



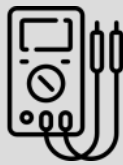
Flow (limited - traceable only)

- Clamp on ultrasonic flow meters

Our calibration flow rig has DN60 and DN90 pipes within its loop that we can make flow measurements on, if your flow meter can operate on these pipe sizes we should be able to calibrate it.

Accreditation & Approvals

- NATA Accredited Laboratory operating in accordance with ISO/IEC 17025
- Approved Metrel Service and Calibration Centre
- Certified Additel Service and Calibration Centre



Electrical (NATA accredited)

- Portable appliance testers
- Insulation testers
- Clamp & Multi meters
- Loop impedance
- Power quality meters
- Earth testers
- Installation testers
- Process calibrators
- RCD testers
- Loop calibrators



Repairs

We are an authorised repair and calibration centre for Metrel and Additel.

We can perform in house repairs down to PCB component level and stock an extensive range of spare components for many products.

Additionally many other products that we offer we can perform servicing and repairs if required. For example our range of pressure pumps contain seals which can wear over time, we can perform servicing as required which includes stripping them down, cleaning, greasing, and fitting seal kit.



Excellence in Calibration
40 years - Est. 1982

Zedflo Australia

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Note: Photographs in this document may slightly differ from the instruments at the time of delivery.
Subject to technical change without notice.