



TELECOMMUNICATIONS & ENERGY

PRODUCT REPRESENTATION

COMPANY PROFILE

PRODUCT REPRESENTATION (INALA DISTRIBUTION)

The range of test and measurement equipment needed to develop and maintain products in the telecommunications, networking and general electronic industries is vast and no single company can do it all. That's why we have formed alliances with the world's leading suppliers of test and measurement equipment so that we can offer our customers a one-stop shop for their diverse needs. What follows is a shortened index of the equipment ranges we represent and their suppliers.

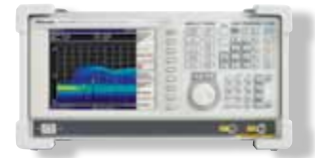
Application area

Suppliers

General purpose test and measurement equipment

- Analogue oscilloscopes
- Digital oscilloscopes
- Signal Generators
- Spectrum Analysers
- Digital Multi-Meters
- Frequency Counters and Timers
- Probes and Accessories
- Function Generators
- Universal Counters / timers
- Pulse Generators
- Pulse/Function Generators
- Arbitrary Waveform Generators
- Wideband Amplifiers
- Shielding box (e.g. for low-noise measurements)
- Field strength analyser
- Signal analysers (3Hz to 26.5 GHz)

Tektronix
Tabor
Topward
Micronix



Calibration

- Frequency standards (Rubidium-based, GPS-synchronised, referenced to the worldwide UTC standard)

Schomandl



Power Supply and monitoring

- DC Power Supplies
- AC Power Supplies
- Signature System (Prevent problems and down time by analysing data in real time to prevent problems and make effective supply and cost decisions).
- Handheld power quality monitors
- Portable troubleshooting system
- Fixed systems for power monitoring
- Multimeters for industrial troubleshooting
- Electronic Loads
- Safety Testers
- Battery Testers
- Power Supply Accessories
- Lead Acid Batteries

Tektronix
Dranetz-BMI
Kikusui
Topward
Monbat



Telecommunications / cellular networks

- BTS testing
- E1 clock and data signal synchronisation
- ADX Active Digital Cross-Connect System
- Tower-Mounted Amplifiers
- Bias-T
- Patch and test frames
- Test Equipment (troubleshooting, site analysers, antenna and cable monitors, antenna testers)
- Power Measurement (digital power meters, directional power sensors, terminating power sensors, wideband power sensors, broadcast power monitors and displays, wideband couplers, transmitter power monitors, meter display panels)
- Base Station Antennae
- Attenuators
- Cavity Filters
- Combining Systems (control station combiners, star junction combiners / multicouplers, T-Pass transmit combiners and expansion channels).

ADC Krone
Bird Technologies
Accuver
Spectracom
Cellvine
Schomandl





Components (couplers, dividers, isolators and circulators, intermodulation suppressors, second harmonic filters, selector switches, splitters, samplers).

- Duplexers and Triplexers
- Laboratory Grade Instruments (calibration carts, multifunction power meters, power sensors)
- Plug-in elements
- Preselectors / post filters
- Signal Boosters
- Terminations and Loads
- Receiver Multicouplers
- Wattmeters and line sections
- Repeaters
- Boosters
- Jammers
- Emergency systems
- Network monitoring and reporting

- Radio Communications Test Sets (designed for the production, maintenance and servicing of analogue radio equipment).
- FIT – Series (Fast Installation Testers for international analogue and cellular mobile networks. Measures the forward and reverse RF power in Watt or dBm and the VSWR).
- Antenna Measurement
- WLAN Power Meter (Display Forward, Reflected and VSWR simultaneously)
- Personal RF Safety Monitor (monitors RF fields and warns when they exceed 2W/m² or 10W/m²)
- Field strength analyser – Hand-held (satellite TV, tapping and poaching, GSM frequencies)
- Custom solution invention, design and manufacturing
- Accessories



Network Testing and Monitoring

- Network monitoring / optimisation
- Network analysis
- Mobile Devices
- WiMax Access
- Wireline Access
- Wireless Packet Core
- Switching and Routing

- PSTN/VOIP
- Ethernet test module
- Hand-held Ethernet test set
- Intelligent network test platform
- Scalable network test platform
- 10 Gigabit Ethernet test module

Tektronix
Spirent Communications
Accuver
OP WILL



Fibre Networks

- Fibre management system
- Optical Power Meters
- Optical Light Sources
- Optical Loss test Sets
- Optical Attenuators
- Talk Sets (over the fibre being examined)
- Craft Tools (cold clamp fault finder, connector inspection microscope, clip-on identifier, visible fault finder).
- Interchangeable Connector (one

interchangeable solution for all SC, LC, MU, FC, ST, LSA / DIN 47256, E2000, F3000, SMA, D4 connectors.)

- Fibre network monitoring and reporting software
- Hand-held OTDR test set
- OTDR test module
- Hand-held OMTS test set
- Intelligent and scalable network test platform

ADC Krone
Kingfisher
Corridor Tech
OP WILL



Cable Monitoring

- Monitoring Units - Unified Monitoring System (insulation and loop resistance)

- Pressurisation Systems - Material for Cables

Lancier Monitoring

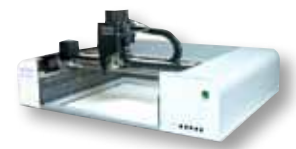


PC board Testing

- Power-off Diagnostics (robotic, power-off – non-destructive - PC board testing even with undocumented boards)
- RF Diagnostics (Precision placement and accurate measurement of Virtual Test Points™ in RF and Microwave Diagnostics.

Local synthetic measurement technology including the sensor, receiver and signal processing in one compact RF Probe assembly allows the sensing of EM fields emanating from RF circuitry.)

Huntron



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Microprocessor development

- Logic Analysers
- Bit Rate Error Testers

Tektronix

Alternative Energy

- Advanced Fuel Cell solutions for the Telecommunications Industry

Idatech



Here's a very brief introduction to our suppliers and what they do:

Tektronix

Enabling Innovation

Tektronix, Inc. is a Blue-chip company and a world-leading test, measurement and monitoring company providing measurement solutions to the telecommunications, computer and semiconductor industries. With more than 50 years of experience, Tektronix enables its customers to design, build, deploy and manage next-generation global communications networks and internet technologies.



KRONE

ADC Krone helps the world communicate, supplying network equipment, software solutions and integration services for broadband, multiservice networks that deliver data, video and voice communications over telephone, cable television, Internet, broadcast, wireless and enterprise networks.



Dranetz-BMI has long been recognised as the world's number one source for power monitoring equipment and services. From versatile handheld power quality monitors used for portable troubleshooting applications, to permanently installed systems for continuous power quality process improvement.



Spirent Communications offers a wide range of products and solutions for device and network testing and service management.



The Bird Technologies Group portfolio includes hardware, software, components and services. The company offers these innovative products and services through their industry-leading product line brands; Bird Electronic Corporation and TX RX Systems. They provide test instruments that are highly accurate, rugged and easy to use. Industry leading components and products such as site analysers, wattmeters, digital sensors, samplers, antennas and signal boosters, tower mounted amplifiers. Furthermore they offer dependable engineering, calibration and educational services for land mobile radio, cellular, semiconductor, broadcast, medical, military and government applications.



IdaTech, is a global leader in the development of environmentally-friendly fuel processing technology and fuel cell systems for stationary and portable electric power generation. This is becoming increasingly important in the telecommunications industry where continued power availability is key to global communications.



Accuver (formerly WirelessLogix & Couei) provides a full range of measurement solutions that allow wireless device manufacturers, network vendors and operators to measure, troubleshoot and optimise their products and networks. Accuver's WiMAX and LTE drive test (DM) tool XCAL and post-processing tool XCAP are the market leaders and have been used by major operators, network vendors and device vendors around the world.



Spectracom is one of the world's leading companies for time and frequency calibration, measurement and analysis. The company's product portfolio comprises time and frequency counters, frequency references and time synchronisation testers for telecom and the electronic industry.



Cellvine markets a broad range of products and solutions for coverage and capacity enhancement of cellular networks. These products improve reception in multiple environments including open terrain, in-building, shopping malls and dense urban areas. Cellvine has a solution for any technology, any network frequency and any environment.



Monbat is a fast developing company which manufactures lead-acid batteries for various applications. Its products have been present on the international market for more than 50 years. The company's wide product range includes starter batteries, stationary batteries, leisure, solar, marine batteries, special batteries for military applications (designed to meet both Russian and NATO standards), and locomotive batteries.



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Kikusui manufactures AC and DC (Linear/Switching), power supplies electronic loads, battery testers, signal generators and high-voltage testers (all GPIB-compatible).



Huntron's reputation in Tracker® Signature Analysis and Flying Probe technology, together with GOEPEL electronics' Boundary Scan expertise, results in a broad range of instrumentation and software for test, inspection and repair of electronic printed circuit assemblies.



Tabor has established leadership in world markets with a great deal of experience in RF applications, universal counter/timers, function generators and pulse generators.



Topward focuses on precision DC power supplies, analogue oscilloscopes, function generators and frequency counters



Kingfisher manufactures optical equipment for cable fault location and optical loss testing, which is used around the world by Telecom and Datacom professionals.



RF-Instrumentsb yaK athreinG roup Company

Schomandl develops synthesiser technology-based RF signal generators and frequency synthesisers for the radio communications market.



Corridor Technologies (CTI) has recently released FiberBase 5.0 (a sophisticated database/mapping package designed for today's broadband environment) and has taken great care to ensure that the quality and richness of features their customers have grown to expect are continued in this latest release and have included many new features, functionality and enhancements.



Lancier Monitoring GmbH has for many years been a leader in the cable monitoring engineering field. Their clients include national and international cable network operators, energy suppliers and global players in industry. Their engineers

are constantly at work on new developments using their store of expertise gained in over 40 years of experience in their specialised field to give you even more user-friendly monitoring systems and devices.

Refurbished equipment and equipment rentals

These days, maintaining operations under increasingly strict budget constraints isn't easy and there are many instances where used equipment (albeit not the latest technology) will do the job just as well as its new equivalent. There are also those times when you may only need equipment for a limited period or for a specific project, whereafter it would only become a liability on the shelf.

The cost-effective and logical approach to all this is to get what you want, when you want and for exactly how long you need it. This programme is designed to do just that. To cope with the logistics of demand and supply, we have linked up with Livingston Global, an international company that specialises in test equipment rental, lease and sales of new and used test and measurement equipment.



All Livingston test equipment is available via next-day delivery anywhere in the World. You can rent for a day, a week, a month, a year or just as long as you need the equipment. Their extensive range of test equipment is only A-brand quality so we can deliver the appropriate solution to fit your requirement. In other words, from new to refurbished and from bought to rented, Inala Technologies can provide you the cost-effective test and measurement solution to meet your professional needs and the demands of your budget.

Product Support and Services

Test Equipment Asset Management

A large company's test equipment inventory is a major asset which can quickly become an expensive liability if not properly maintained, upgraded or utilised. Not only that, but what is the status of your test equipment at any time? Is it ready for use or does it need repair or calibration? Do you know who wants to use what, when and for which purpose? And where is the instrument in question?

Our test equipment asset management programme provides the necessary equipment tracking, scheduling and status information to maximise the usefulness of these all-important assets.

Test equipment service & calibration

Inala has SANAS-accredited laboratories in Johannesburg and Stellenbosch for Electrical (DC / LF – Lab Accreditation 142), Time and Frequency (Lab Accreditation 542) and Radio Frequency (Lab Accreditation 742) calibration. SANAS stands for South African National Accreditation System. We've been repairing and calibrating the finest and most technologically-advanced test equipment in the world for decades. So much so that we've won long-term government contracts repeatedly as well as an increasing number of customers who want the reassurance that their expensive assets are receiving the attention they deserve.

Training

Test and measurement activities are only as effective as the equipment operators. The most sophisticated instruments available can't cope with improper operations or the interpretations of the results they provide. That's why we provide technology specific (GSM, PCM, SS7, RF, etc.) as well as equipment specific training so that you get the best from your technology investment as well as your personnel investment.



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