

# PARTNERS & SERVICES



Since 1980 ALL Data is specialized in the reserch of the most suitable products, systems, solutions to solve even the most demanding and emerging technological needs of its customer. ALL data aim is to act as value added partner, not as ordinary supplier.

- System Integration
- Test programs development & conversion
- R&D specialized service
- Prototype production
- Noise & vibration test
- Real space acoustic analysis
- Modal analysis
- Corrosion test
- Calibration
- Instruments renting and leasing

## PRODUCTION



Single and parallel in-system universal programmers, single site in-system programmers, socket gang programmers.



Fast & reliable device programming solutions In-line, off-line, in-system manual & automated from lab to production.



Fully/semi-automatic PCBA in-line & standalone routers, flex-circuit depaneling systems. Fast, cost-effective.



Advanced selective & desktop soldering robots, laser systems, nitrogen generators, solder bath, fume extractors.



Climatic chambers, thermostatic chambers, cryogenic chambers, ovens, conveyor ovens, vacuum ovens, vacuum dryers for glove box.



Programmable automatic battery tab weld stations. Programmable positions, pressure, power, current up to 10 kA.

## 4.0 BOARD & SYSTEM TESTER



Flying probe & In-circuit scalable solution, double sided system with up-to 22 closed loop flying probes,  $\pm 0.1$  micron resolution, programmable, electrical test capabilities including analog, digital, mixed signal, boundary scan, optical, thermal inspection, reverse engineering.



Board DfT & test coverage analysers, test coverage estimation and coverage measurement. Quality & electronic assembly repair management system.



AOI predictive solution based on Artificial Intelligence, patented optical head with high resolution and high precision. Extremely reduced programming time. Modern SW based on modularity.



ATE for testing, troubleshooting, repair of PCBs, for MIL-AERO, transportation, support & maintenance of electronic equipment for mission critical applications.



Test systems for quality assurance in electronics production New methods to make testable what seems untestable. Innovative Flying Probers, very latest generation in-circuit testers.



Tools for in-system programming of Flash & programmable logics; board & systems tests, integration with major ATE manufactures; system debug, PCB prototype verification, production, maintenance.



AOI ATE for SMT, DIP, LED, Touch Panel. First Article Inspection (FAI) AOI plus automatic probing RC measurements up to 01005 (Imperial).



Protocol Decode, and PHY layer testing solutions on T&M equipment. Implementation of Innovative & comprehensive protocol decodes as well as PHY layer testing solutions that span the serial data, telecom, automotive, and defense electronics segments.



Fastest ICT functional platforms for the latest PCBA needs in automotive, industrial, computing, consumer, MIL. Structural & functional test to cover defects for analog, digital, mixed-signal devices.

## T&M INSTRUMENTATION



High-Performance Arbitrary Waveform Generators, Fast Pulse Generators for Advanced Research, Aerospace & Defense, ... Signal generators with unique features: world's fastest 16 bits AWG, mixed signal generation (Analog + Digital), wide output voltage range, easy-to-use SW interface.



Hipot testers, wound and transformer testers, Capacitance Meters, LCR Meters, DMM, High accuracy thermal/multifunction datalogger, SMM PXI modules.



Gossen Metrawatt - Camille Bauer - Dranez; Instruments and system solutions for: Electrical measuring and test, Energy management, Measuring transducers, Control technology, Power supply and Recording technology.



Digital scopes, signal sources, more than 230 AC-DC power supplies, digital power meters, LCR meters, safety testers for most of the standards.



Thermal and acoustic imaging cameras and leak detectors for industrial, fire fighting and other kind of inspection or monitoring. Fixed and handheld versions also for hazardous (ATEX) areas. For predictive maintenance and industrial inspections, water and gasses leakage detection.



Space, inertial, industrial grade accelerometers, thermal switches, gyros, IMU (Inertial Measuring Unit).



Bench & VXI, programmable Synchro/Resolver standard & simulator, Synchro/Resolver angle position indicator, precision phase meter, ARINC or RS232 to Synchro converter.



Digital, mixed signal, with integrated generator scopes, RF spectrum analyzers, function, arbitrary, RF generators, multimeters, power supplies, loads, DAQ systems.



Signal intelligence, electronic warfare and spectrum monitoring solutions. Signal detection & analysis to evaluation of emitter geolocation, sovereign spectrum management, technical monitoring.



EMC pre-compliance test LISn instruments, EMC probe kit set, near field CISPR25, LISn, TEM Cells; LISn 240V, RF power amplifiers, ESD tools. Environmental sensors & DAQ.



Wide range of professional thermal imagers, featuring valuable price-quality ratio and smart functions. Free Software for analysis and report generation included.



Oscilloscopes, function generators, DC power supply, laboratory professional instruments.



Modular matrix, multiplexers, scanners, digital multimeters, A/D & D/A converters, high speed digitizers, arbitrary sources, mainframes, instruments in LXI, PXI e, PXI, VXI, VME.

## T&M CONNECTORS



Rugged & high performance modular interface solutions to provide a reliable interconnection for ATE with options to maximise the performance potential of all popular instrument platforms.

## DAQ



High-precision measurement & control systems, with excellent resistance to thermal and EMC influences. Robust design for operation in demanding environments. MTBF of more than 20 years.



Measurement modules for electric and hybrid vehicles. High voltage probes, probes for high & low voltage measurement modules. Measurement modules for 12, 24 and 48 volt vehicles.



Isolation amplifiers, transmitters, modules, indicators, process analytics, lab products, sensors.



Complete solutions for noise & vibration measurement, analysis & reporting, continuous DAQ, signal analysis, process monitoring.



High accuracy, time synchronized DAQ for strain gauges, thermocouples, thermo resistances, voltages, currents.

## METROLOGY



Solutions for temperature measurements & calibrations, precise thermometer readouts with accuracy in mK range, reference resistors, specialised equipment for metrology institutes.



Resistance standards, current shunts, precise decade standards programmable fluid & air bath, digital teraohmometer, resistance/thermometry bridges.



Air data test sets, pressure & vacuum, temperature calibrators, torque and force calibrators. Tachometer testers. Test chambers, instrument cleaning & contamination prevention, test hoses, adapters.



Multifunction, multiproduct, electrical test equipment calibrators, high accuracy digital multimeters, AC/DC shunts, Decade resistances, DC voltage standards, frequency source & measurement GPS standard.

## TOOLS



Test & measurement equipments, PSU DC, soldering stations, rework stations.



PCBite is a complete line of products handling your circuit board during the development phase. Powerful magnets together with a stainless base plate makes the system flexible, mobile and user friendly.



Digital LCR meter in a set of tweezers for identifying, measuring, testing, troubleshooting surface mounted devices (SMD) and trough hole.



Cutters 63-65 HRC mini, subminiature, taper, tip, hard wire cutters. Cass W tungsten alloy steel, class T solid tungsten carbide brazed (79-81 HRC). Custom models, precision pliers and tweezers.

## ACOUSTIC



5 digital cameras & 64 microphones sphere, SW for capture & reproduction of omni directional sound image, detection & measurement of causes of noise in cars, airplanes, helicopters, theatres, buildings.



Membrane-free optical microphones designed for measurements in air as well as in liquids. Smart data acquisition systems process the acoustic signal into a meaningful format.

## AC/DC POWER BATTERY & EV TESTERS & SIMULATORS



In line automatic battery tester using flying probes technology.



Aircraft GPU, aircraft power supplies, aircraft ground power test loads & battery charge-discharge equipment. Electrical safety, power analyzers, programmable AC, DC power supplies, loads.



Linear and power amps AC audio and ultrasound ranges (5 Hz to 800 kHz), for general & special industry, military agencies, universities and research institutions.



Programmable auto ranging DC, modular DC power supplies. Solar array simulators. Programmable AC, AC+DC sources 1&3 phases. Regenerative grid simulators. Programmable DC/AC+DC loads.



Programmable power supplies AC/DC from 240 W to 1 MW, AC/AC+DC from 250 VA to 800 kVA, programmable loads DC and AC. Solar panel simulator systems and regenerative AC/DC converters.



Programmable DC power supplies starting from 100W, linear, high-resolution, compact, with SW calibration. Programmable DC loads mono & multi-channel, from 150W. Accuracy and resolution, operating modes CC, CV, CR, CW; series or parallel configurations.



AC, DC power supplies & loads, EEV, power battery, fuel cell, power semiconductor, photovoltaic, electrical component test, general test equipment. E-motor emulators, DC charging pile test systems, bidirectional power supplies, regenerative DC power supplies loads, grid simulators.



Modular, upgradable, programmable battery testers. Multi channels, reliable, high accuracy, complementary software. Models for battery manufacturing factories and R&D institutes.



Programmable & fixed DC&AC power supplies, grid simulators, 400 HZ power supply/ground power, regenerative AC power sources and UPS & voltage regulators, regenerative AC loads.



DC/DC 500 W - 100 KW converters, DC/AC inverters, AC/AC power supplies, DC loads, frequency modifier AC/AC, "ruggedized" UPS. Redundant/fault tolerant modular power solutions, hot bus.



600 W DC programmable compact benchtop LXI, 1500 W DC HIGH density programmable custom power supplies for medical, industrial, military, telecommunications, semiconductor and labs.

For more than  
45 years, your value  
added partner  
providing the best in  
class technology!



*your partner in technology*

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