

**NEWTECH**  
INTERNATIONAL W.L.L.



**المؤسسة العالمية**  
التكنولوجيا الجديدة ذ.م.م.

## **BUSINESS PROFILE**

P.O Box No. 54005, Adilya  
Kingdom of Bahrain  
**Tel:** +973 1771 6151, **Fax:** +973 1771 4481  
**E-mail:** [bahrain@newtechgcc.com](mailto:bahrain@newtechgcc.com)  
[newtech@batelco.com.bh](mailto:newtech@batelco.com.bh)

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## GENERAL INFORMATION

Company Name	:	Newtech International W.L.L.
Commercial Registration	:	58309 - 1
Nature of Business	:	Industrial Engineering Products / Services
Key Personnel	:	Mr. A. Ponnuchamy – Managing Director Mr. R. Murali – General Manager Mr. T. V. Shrithar – Commercial / Admin. Manager Mr. Felix Anbarasan – Manager – Environment Div
Registered Office	:	Flat No. 107, Building No. 1501, Road No. 2116, Block No. 321, Al Gudaibiya, Manama, Kingdom of Bahrain

## GROUP COMPANIES

### ***Qatar***

Newtech International Co. Ltd.  
P. O. Box No: 23407, Doha – Qatar  
Tel: (+974) 4603451, Fax: (+974) 4506206  
E-mail: [qatar@newtechgcc.com](mailto:qatar@newtechgcc.com)

### ***Bahrain***

Envirotech Consultancy S.P.C  
Flat No. 102, Building No. 1501, Road No. 2116,  
Block No. 321, Al Gudaibiya, Manama, Kingdom of Bahrain  
Tel: +973 17 71 6112, Fax: +973 1771 4481  
E-mail: [enviro@newtechgcc.com](mailto:enviro@newtechgcc.com)

Newtech International Cargo Services W.L.L  
Flat No. 107, Building No. 1501, Road No. 2116,  
Block No. 321, Al Gudaibiya, Manama, Kingdom of Bahrain  
Tel: +973 1771 0454, Fax: +973 1771 4481  
E-mail: [nics@newtechgcc.com](mailto:nics@newtechgcc.com)

### ***India***

Newtech International  
H-15, TNHB Colony, Sector 4  
Railar Nagar, Madurai – 625018  
Tamil Nadu, India  
Tel : +91 452 266 2665  
Email: [india@newtechgcc.com](mailto:india@newtechgcc.com)

## THE COMPANY

“Newtech International W.L.L” is a leading Engineering based Trading and Support Services company in the Middle East which was established by its founder Mr. A. Ponnuchamy in the year 1991 headquartered in the Kingdom of Bahrain.

Our corporate core motto is:

**“BRINGING SOLUTIONS, NOT JUST EQUIPMENT”**

Newtech has carved niche for itself in the industrial sector because of its ongoing commitment to quality in its products and services. Newtech has ventured into the realms of Electro-Mechanics, Instrumentation and Process Control and has emerged as a leading supplier/service provider in the fields of Oil and Gas sector.

With a view to providing specialized expertise for the growing environmental needs of our market, a new company called “Envirotech Consultancy S.P.C” was established in Bahrain in 1999. Envirotech has technical collaborations and associations with a number of international engineering consultancy companies and environmental laboratories to provide added value to its services. It mainly deals with environmental monitoring and also provides comprehensive environmental testing and compliance consulting services to industrial and commercial clients.

Due to the increasing customer database from Qatar, we formed a Qatar based “Newtech International Co. Ltd” , another independent subsidiary company in partnership with Petromech Trading & Construction in 2005.

Our achievements and increasing clientele had persuaded a few of our major suppliers to choose Newtech as their Middle East Representative for their products. We also work in other gulf countries through our business partners i.e. with Rezayat group in Saudi Arabia, Moshin Hyder Darwish (MHD) group in Oman, Business communications LLC in UAE etc.

## BUSINESS DIVISIONS

-  Instrumentation
-  Electro-Mechanics
-  Energy and Power
-  Health and Safety
-  Environment
-  Cathodic Protection
-  General Services

## INSTRUMENTATION DIVISION

### PRINCIPAL – TEMPSSENS INSTRUMENTS (I) PVT. LTD.N

RTD's - offer accurate temperature measurement from  $-200^{\circ}\text{C}$  to  $+800^{\circ}\text{C}$  - Wire wound & Thin Film Sensors, Ceramic Encapsulated, Class A & Class B accuracy. Protection sheath SS316, SS304 and other grades and sizes from 3 mm to 15 mm and more.

Wire configuration - 2-Wire, 3-Wire and 4-wire, Simplex and Duplex constructions - Sensor Elements have calibration & traceability to ASTM E585 / E 585 M – 01a, BS EN 60584-1 IEC 584, IEC 1515, ANSI / MC 96.1.



Thermocouples - Element Types: K, N, J, E, T, R, S, B, W. – Simplex, Duplex & Triplex, covering wide temperature Range 0 to  $2350^{\circ}\text{C}$ .

Sheath sizes: from 0.5 mm Dia. to 12.7 mm Dia., Mineral Insulated -  $\text{MgO}$ ,  $\text{Al}_2\text{O}_3$

Sheath materials: SS316, SS310, SS321, Inconel 600, Molybdenum etc.

Sensor Elements have calibration & traceability to ASTM E585 / E 585 M – 01a BS EN 60584-1; IEC 584, IEC 1515, ANSI / MC 96.1.

Thermowells - protect the basic sensor from mechanical damage, pressure and corrosion. Materials available are SS304, SS316, SS310, SS321, Inconel 600, Inconel 601, Inconel 625, Incolloy 800, Monel, Stellite, Hastelloy, Brass, etc. Wake Frequency Calculations are done in accordance with ASME PTC 19.3.

Types of Thermowells:

- ❖ Bar Stock Threaded (NPT, BSP, Metric)
- ❖ Bar Stock Flanged
- ❖ Bar stock Van stone
- ❖ Bar Stock socket weld
- ❖ Bar Stock welded-in bar stock ground joint
- ❖ Bar stock clamp joint





## PRINCIPAL - MOORE INDUSTRIES

### *Temperature Transmitters, Sensors & Assemblies*



Temperature transmitters allow you to take weak signals of low-level RTD or thermocouple temperature sensors, and convert it to high-level analogue signals more appropriate for long-distance transmission through a loud plant, and prepared for direct interface with an indicator, recorder, PLC, DCS or PC-based SCADA system.

### *Signal Transmitters, Isolators & Converter*



Convert, isolate, split, boost, and step down process signals so field instruments can interface directly with indicators, recorders, DCS, PLC, and PC-based SCADA systems. We provide a wide range of interface solution.

 **MOORE  
INDUSTRIES**  
WORLDWIDE

## PRINCIPAL – HYCONTROL LTD.

Types of Level Measurement tools  
- radar, TDR, ultrasonic, thruwall,  
hydrostatic, plumbob, bypass and  
foam.

Types of Level Switches - Float,  
rotary paddle, capacitance,  
admittance, vibrating probes of solids, tuning forks for liquids, microwave, foam and  
conductivity.



SILO Protection – a pneumatic conveying operation is necessary to prevent over-pressurization or over-filling. The pressure sensor, level sensor and the pressure relief valve alert on likely danger and ultimately provide relief of

dangerous pressure. Monitoring the level and pressure allow other control functions to be activated such as:

- ❖ High level alarm
- ❖ High pressure alarm
- ❖ Tanker fill pipe shut-off
- ❖ Activate filter alarms
- ❖ Alarm on a PRV event pressure
- ❖ Provide filter blockage information
- ❖ Provide valuable preventive maintenance info
- ❖ Record the number of high pressure events
- ❖ Record the number of PRV lifts
- ❖ Record the number of near miss events



## PRINCIPAL – FLUID COMPONENTS INTERNATIONAL LLC



Mass Flow Meters, Flow and Level Switches for Process Measurement and Automation. Rugged, accurate, repeatable superior quality designs have made FCI the leader in thermal dispersion mass flow meters, flow switches and level switches for industrial process measurement applications. FCI air and gas flow meters are applied from small dosing lines to the largest stacks.

- ❖ Mass Flow Meters
- ❖ Gas Flow Meters
- ❖ Liquid Level Switches
- ❖ Gas Flow Switches
- ❖ Liquid Flow Switches



**FCI** FLUID COMPONENTS  
INTERNATIONAL LLC  
Flow, level, and temperature instrument innovators since 1984

## PRINCIPAL – KATRONIC TECHNOLOGIES LTD.



Specialized clamp-on ultrasonic flow meters and non-invasive process measurement instruments manufactured with state-of-the-art electronics and sensor technology that are highly reliable and easy to operate.



The clamp-on ultrasonic flow meters of the KAT flow series can measure on pipes of every common material and diameter.



## PRINCIPAL – SENSOR TECHNOLOGY



Rotary Torque measurement solutions and sensors - exclusive technology for instrumentation, test and OEM markets, capable of measuring torque ranges from 10mNm to 13000Nm.

Digital RWT310/320 Series torque sensors with integrated electronics and the digital RWT330/340 Series torque sensors with separate electronics include the latest non-contact TorqSense (SAW) technology. Also offer Optical and Strain Gauge technology torque transducers. TorqView, based on NI LabVIEW, is available as an easy to use Advanced Torque Monitoring software tool to assist data recording.

Customers can specify any full-scale torque range, within the standard range, to optimize accuracy. Included within the purchase is a free calibration for the first year and a Lifetime Warranty.



## PRINCIPAL – RICHARDS INDUSTRIES



Popular brands of - Jordan Valve, Steriflow Valve, Low Flow Valve, Marwin Valve and Bestobell Steam Traps, various types of Pressure Regulators, Back Pressure Regulators, Temperature Regulators, Control Valves, and Sanitary Valves since 1940 under Jordan brand. “Sliding gate design” was first developed in 1947 by William Jordan.

2-piece, 3-piece flanged, 2-way, 3-way ball valves with actuators & accessories are manufactured under the brand “Marwin” and steam Traps under “Bestobell”.





## PRINCIPAL – MEYLE



- ❖ Drives control units
- ❖ Relays PLC, Encoder
- ❖ Pneumatic valves, cylinders
- ❖ Proximity sensors
- ❖ Circuit breakers, mini power supply

A one-stop solution for major well known Instrumentation & electrical items from Siemens, ABB, E&H, Pepprel & Fuchs

Also manufacture level, flow and pressure sensors as well as transducers and encoders. Some of the most common products supplied by them are as follows:



## PRINCIPAL – AGAR CORPORATION

### *Interface Detectors, Oil/Water Meters, Multiphase Flow Meters & Hydrate Detectors*

Development, design, and manufacture of multiphase flow meters (MPFMs), oil/water meters, interface, emulsion & foam detectors, and hydrate detectors. Our solutions increase the efficiency of oil production and processing in applications such as heavy oil well testing, waste water treatment, automatic tank dewatering, desalters, emulsion & foam control, and hydrate detection where hydrocarbons and aqueous mixtures are present.

#### **Interface Detectors**



The ID-200 Series Interface Detectors are used for interface measurement and control in all types of liquid/liquid and vapor/liquid separation processes including emulsions and foam.

A wide range of models, process connections, and output options are available for the control of a variety of process installations such as Tanks, Decanters, Dehydrators, Desalters, Coalescers, etc. The ID-200 Series advanced control capabilities can be used to automate upset responses, antifoam and demulsifier chemical feed systems, and eliminate cross-contamination of separating phases.

#### **Oil / Water Meters**



Agar's OW-200 series is a second-generation design, microwave based liquid/liquid analyser developed by Agar Corporation after introducing the first 0-100% oil/water meter to the market in 1985. Our current design is the only device in which the accuracy of the measurement is not affected by changes in salinity, density, viscosity, temperature or velocity of the components being analysed.

#### **Applications:**

- ❖ Crude Oil and finished pipeline monitoring
- ❖ Oil in wastewater
- ❖ Glycol and water
- ❖ Aqueous/organic measurement



### ***Multiphase Flow Meters***



The AGAR MPFM is a non-nuclear, versatile, three-phase flow meter designed for true field conditions. It provides accurate, real-time measurements of oil, water and gas flows simultaneously without separation of the phases. Specially designed for low maintenance and ease of operation, they require no field calibration or prior knowledge of fluid properties (such as fluid density and salinity) to attain the specified accuracies. The real-time data capabilities of these meters allow for optimization of all types of critical production enhancement techniques.

#### **Advantages of the Agar MPFM-50 series:**

- ❖ Gas void fraction 0-100%
- ❖ Water-cut 0-100%
- ❖ Not affected by flow regimes
- ❖ High accuracy, real-time flow measurement
- ❖ High and low viscosities
- ❖ No nuclear (radioactive) sources
- ❖ Compact, portable, and easy to transport and install
- ❖ Wet gas application

### ***Hydrate Detectors***



Measurement of the water-cut and hydrate presence is performed by measuring the complex permittivity properties of the flow stream using the multiple high frequency method. This method will compensate for the effect of changing hydrocarbon composition and water salinity while providing two unique outputs, one for water cut, the second for hydrate concentration.

The presence of hydrates, within a pipeline, can severely impair fluid flow and requires regular pigging. Low Dosage Hydrate Inhibitor (LDHI) or methanol injection is used to minimize hydrate formation. By detecting the presence of hydrates, LDHI or methanol injection can be optimized.



## PRINCIPAL – EDIBON TECHNICAL TEACHING EQUIPMENT



Internationally renowned, more than 3000 patented Technical Teaching Units and 2800 different software packages for various fields of science.

Complete laboratory and Industrial Systems, based on several new Teaching Techniques like 3D Physics, Computer Aided Instruction (CAI), Real Time Control, Computer Control (SCADA), Photoelasticity etc. The SCADA – NET System, in exclusive and extensive ranges cover:

- ❖ Physics
  - Secondary education
  - Advanced physics laboratories
- ❖ Electronics
  - Technical and vocational education electronics laboratories
  - Higher education electronics laboratories
- ❖ Telecommunications
  - Technical and vocational education telecommunications laboratories
  - Higher education telecommunications laboratories
- ❖ Fluid Mechanics
  - Fluid Mechanics Laboratories – Phase-1
  - Fluid Mechanics Laboratories – Phase-2
  - Fluid Mechanics Laboratories – Phase-3
- ❖ Process Control
  - General Process Control laboratory
  - Process Control and maintenance training centre
  - Regulation, control and process control laboratory



## PRINCIPAL – TIME ELECTRONICS



Design and manufacturing of calibration and metrology instruments:

- ❖ Decade Boxes - Resistance, capacitance, and inductance
- ❖ Portable Voltage and Current Test Equipment - Handheld and transportable calibrators, simulators, and sources
- ❖ Portable Loop and Temperature Calibration Instruments - Handheld loop calibrators, RTD and thermocouple calibrators
- ❖ Pressure Calibration Instruments - Calibration pumps, pressure calibrators, and digital gauges
- ❖ Electrical Test Calibrators - Instruments for rapid calibration of electrical test equipment
- ❖ Multifunction Calibrators 5025E, 5025C and 5051 - Precision calibrators for wide workload coverage
- ❖ ATE/Bench Calibrators and Digital Multimeters - Programmable calibrators and benchtop DMMs
- ❖ Calibration Benches - Comprehensive modular test benches and complete laboratory design
- ❖ Calibration Software - For laboratory, office, and site calibration work



## ELECTRO-MECHANICS DIVISION

### PRINICIPAL – AIRPACK NETHERLANDS

Airpack Netherlands offers:

- Air and gas compressor packages,
- Air and gas dryer packages, and
- Nitrogen generators.





## PRINCIPAL – GARLOCK

GASKETING PRODUCTS



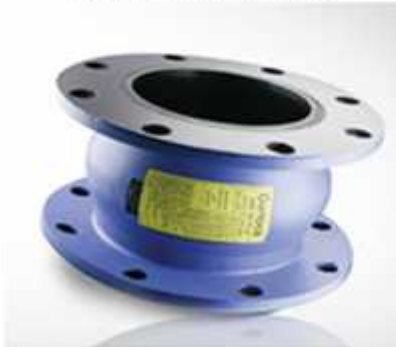
HYDRAULIC COMPONENTS



METALLIC GASKETS



RUBBER EXPANSION JOINTS



KLOZURE OIL SEALS



KLOZURE MECHANICAL SEALS



METAL EXPANSION JOINTS



LUBRIKUP OIL AND GAS SEALS



COMPRESSION PACKING



BUTTERFLY VALVES



**Garlock**  
an EnPro Industries family of companies

## PRINCIPAL – HALTON

### *Marine Division*



### Dampers, Diffusers



Safety is the most important in extreme working conditions, where a fire could put people's life at risk unless necessary precautions are taken. Therefore, it is essential that the equipment chosen to prevent fire progression within a ventilation ductwork is top-class. Because smoke and other toxic gases can be more dangerous than the fire itself, it is important that the fire dampers also prevent smoke from spreading. Halton is the manufacturer supplying smoke-tight fire dampers.

### Marine Services



Indoor climate solutions - products and systems - for various environments and quality of indoor environment from design to the use of the facility

Marine HVAC Audits - Ships are required to dry-dock every now and then. Major overhauls usually extend the ship's life cycle, attract new passengers and create an opportunity to upgrade the ship with modern up-to-date solutions.

Successful dry-docking requires a great deal of planning and some serious decisions concerning what should and can be done. Prior to dry-docking, Halton Marine can offer

an HVAC Audit for galley and cabin ventilation - the areas that use a substantial part of HVAC. Based on the HVAC Audit, Halton Marine draws up a report on the upgrades, improvements and solutions it recommends in order to have a better functioning system. When these improvements have been carried out, Halton Marine conducts another survey to compare the results to the original values and to verify the results.

Halton Marine has improved the energy efficiency, safety and the indoor environment quality in many major refurbishment projects.

### ***Food Service Division***

#### **Kitchen Ecology Units**



Solutions range from public and commercial buildings to health care and laboratories, commercial kitchen and restaurant applications and recognized indoor climate solutions for marine and offshore applications. Areas of expertise and product ranges cover air diffusion, airflow management, fire safety, kitchen ventilation, air purification and indoor environmental management.



# **Halton**

## PRINCIPAL – PARKER HANNIFIN



Precision-engineered solutions for a wide variety of markets – aerospace, climate control, electromechanical, filtration, fluid and gas handling, hydraulics, pneumatics, process control, sealing and shielding.

### ❖ Aerospace Systems and Technologies

- ❖ Air preparation (FRL) and Dryers
- ❖ Cylinders and Actuators
- ❖ EMI Shielding
- ❖ Filters, Separators & Purifiers
- ❖ Gas Generators
- ❖ Medical & Dental equipments
- ❖ Motors, Drives and Controllers
- ❖ Pumps
- ❖ Fittings



The fittings provide leak free solutions including the most comprehensive range of instrumentation products ranging from Single (CPI), Double (A-lok) compression Fittings, Instrument Pipe and ISO conversion Fittings, MPI fittings, Tube ended pressure gauges, Phastite, Ultra seal fittings, Vacuseal fittings, Welded Fittings, Tube fabricating Equipment, Manifolds, Ball, Needle Valves and sub -system for the varied oil & gas, power generation, process analytical and alternate fuel markets.

Focus on solving some of the world's greatest engineering challenges sparks passion for innovation and the Technological expertise secures a more sustainable future growth.





## PRINCIPAL – RITTAL

- ❖ Innovative enclosure
- ❖ Power Distribution
- ❖ Climate Control
- ❖ IT infrastructure
- ❖ Software & Services
- ❖ System Accessories

All these together on a single system platform, complemented by extensive range of software tools and global services, creating a unique added value for all industrial applications: Production plant, test equipment, facility management and data centres

In accordance with the simple principle, “Faster – better – everywhere”, innovative products and efficient services are combined to optimum effect.



## PRINCIPAL – SAACKE



Boiler and Process firing systems - reliable solutions, highly efficient with low emissions:

- ❖ Industrial Burners and burner control systems
- ❖ Combustion chambers & Hot gas generators
- ❖ Marine burners & boilers
- ❖ Exhaust gas cleaning
- ❖ GCU Gas combustion chambers



- ❖ Combustion air supply system

Installation, commissioning, inspection/maintenance/repair, plant and engineering consultation and training services available.



## PRINCIPAL - WINSTED CONTROL ROOM CONSOLES



Control room console solutions - attractive, ergonomic consoles that work with operators to improve comfort and optimize efficiency. Customized consoles suitable for any control room application, for control rooms from the ground up, or just upgrading operations. Experts combine the disciplines of industrial design, ergonomics and interior design to create solutions that are both efficient and eye-catching.

Special consideration to the ergonomic requirements of operators to build consoles that reduce fatigue, improve productivity and inspire. Commitment to customer service is second-to-none and satisfaction is guaranteed.

- ❖ Envision command consoles
- ❖ Sight-line consoles

- ❖ Slat-wall consoles
- ❖ E-SOC control stations
- ❖ Encompass-2 workstations
- ❖ M-View monitor walls
- ❖ Pro-series I & II Racks



## ENERGY AND POWER DIVISION

### PRINCIPAL – PHEONIX CONTACT



Electrical and electronic automation engineering range of products include: various types of terminal blocks / 3 way isolation amplifiers / Signal duplicator, Multiplier / Loop powered isolator / Passive isolators / Transducer - Current / Voltage / Frequency / Temperature / 8/12bit A/D converters and D/A Converters / Power Supply units / Surge Protection Devices / Interface Cabling / Industrial Connectors / Electronic Monitoring Relays for Current, Voltage, Phase Sequence and Temperature / Surge Protection Devices for Power Supplies, Measurement & control technology Data networks and standard interface Transceiver systems, telecommunication systems etc.

❖ Industrial Connection  
Technology Cipline

- ❖ Marking System Complete
- ❖ Signal Converters Interface
- ❖ Components and Systems - AUTOMATION
- ❖ Power and Signal Quality - TRABTECH
- ❖ Field cabling - PLUSCON
- ❖ PCB Connection Systems – COMBICON



## PRINCIPAL – EMERSON NETWORK POWER



Custom built Uninterruptible Power Systems (UPSs) for all industrial (including Oil & Gas) and critical applications in the world.

On-line double conversion technology protects and isolates the load against black out, brown out and all power quality disturbances

Product range includes:

- ❖ Single-phase AC UPS
- ❖ Three-phase AC UPS
- ❖ DC UPS systems
- ❖ Battery and battery protection (MCCB) box
- ❖ Battery monitoring system
- ❖ AC and DC distribution panels
- ❖ Connectivity and monitoring solution
- ❖ Mizar & Alcor UPS 10-15KVA & 20-30KVA
- ❖ Quasar & Vela UPS from 40 to 60KVA
- ❖ Atlas UPS from 80 to 120 kVA
- ❖ Super Nova 150KVA – 500KVA



## PRINCIPAL – POWERTRONIX

### *Home & Business Network Power Solutions*

Fully integrated solutions for the critical power aspect for the following segments:

- ❖ Home/Home Office
- ❖ Business Networks
- ❖ Data Canfers and Facilities
- ❖ Engineering industries

Each requires customized efforts for products, sales and marketing, but each has a common theme: high availability is increasingly essential.

### *Solar Products*

- ❖ Lanterns
- ❖ Home Lighting Systems
- ❖ Street Lighting
- ❖ Garden Lighting
- ❖ Powered Fence
- ❖ Invertors



### *UPS & APC Products*

- ❖ Back-UPS RS
- ❖ Smart-UPS
- ❖ Smart-UPS On-Line
- ❖ Three Phase Systems
- ❖ Racks-Power-Air
- ❖ Isolation Transformers
- ❖ Voltage Stabilizers
- ❖ Lighting UPS





**PRINCIPAL – TURBOSTAR TECHNICAL SERVICES LLC**

**Product Range**



- ◇ Centrifugal Spin Casting Technology
- ◇ Virgin White Metal
- ◇ Warranty
- ◇ Quality Assurance ; ISO Certified
- ◇ State of the Art Manufacturing and Repair Unit in Dubai
- ◇ Over 15 years experience in White Metalling, Oil and Gas and Power Industries



## PRINCIPAL – TRIVENI TURBINE LTD.

Clean Energy Turbine Solutions include:

- Erection and Commissioning;
- Periodic Overhauling;
- Long Term Service Agreement;
- Remote Monitoring;
- Training Solution;
- Spares;
- Customization and Upgradation;
- Refurbishing; and
- Comprehensive O & M Services



Triveni Turbine Limited



## PRINCIPAL – WALTER MEIER



AXENERGY, SWITZERLAND is a globally active division formed by Walter Meier Holding (WMH) to address the power augmentation market segment. This division combines the resources of Adair and Nortek, the humidification companies owned by WMH.

Together they are the largest producer of industrial/commercial

humidification equipment in the world. With over 50 years' experience in fogging and atomization technologies, its new division, Ax Energy is uniquely positioned to offer the CT-FOG combustion turbine inlet air cooling system. The first system of its kind designed expressly for the demands of the power generation market.



**walter  
meier**

## PRINCIPAL – SUMMIT ELECTRIC SUPPLY

### *Sophisticated Electrical Components, Cables and Project Solutions*



- ❖ Audio / Visual Signals – Sirens, Bells, Signal Lights
- ❖ Ballasts – Fluorescent, HID
- ❖ Distribution Systems – Dry-type transformers, Metering Products & Switches, Panel Boards, Switchgear & Motor Control Centres (NEMA IEC), Utility & Pad mount Transformers
- ❖ Custom Distribution Systems – Powerhouses, Explosion-proof switch racks, starters, panel boards, disconnects, combination starters, IEC breakers
- ❖ Cables – Industrial / Marine - & Fittings – Electrical & Instrumentation Cables, Rig cables, Shipboard cables, Cable glands, Cable termination, Cable trays
- ❖ Conduits & Fittings – Aluminium, ENT, Flexible, Plastic coated, PVC rigid coated steel, Rigid galvanized steel
- ❖ Transformers – Buck-boost, Drive isolation, Electro-static, Industrial control, K-Factor, Mini-power centres, Oil-filled pad mounts



### *Process and Power Automation Solutions*



Leveraged for providing unique, creative and practical Automation solutions complete with competitive innovative and professional execution of LTSC MAC, MIC, LDSC contracts for Greenfield, Brownfield, Revamp projects in various sectors.



### *Power Management*



Power Generation Solutions - Complete control system is designed to monitor, control and protect all sections of power plant along with safety interlocks for Diesel / Gas / Bio fired fuel generator sets, generator protection panels.

Industrial energy management solutions- Energy management system provides an integrated set of control, supervision and management function for power generation, distribution and supply in industrial plants. In addition to the traditional functions of supervisory control and data acquisition (SCADA).



### *Engineering Consultancy*

- ❖ Field Instrument Specifications
- ❖ Integrated control system specification

- ❖ Integrated control system architectures (BPCS / SIS / F&G/ Third Party Interface)
- ❖ Third party integration
- ❖ Control system network optimization
- ❖ Process and business LAN integration



## HEALTH AND SAFETY DIVISION

### PRINCIPAL – BW TECHNOLOGIES



Innovative gas detection instrumentation - success achieved through a commitment to providing customers with high performance, dependable products backed by exceptional customer service and support. Pioneering the Rig Rat, the world's first wireless solar-powered gas detector.

A new area of gas detection – the fixed systems market, broadening the industrial base, expanded into portable gas detection market, the world's smallest multi-gas detectors:

- ❖ Gas Alert Max XT II
- ❖ Gas Alert MicroClip XT
- ❖ Gas Alert Micro 5
- ❖ MicroDock II



## PRINCIPAL – GRAYWOLF SENSING SOLUTIONS



Indoor air quality (IAQ) Monitors make proactive IAQ surveys efficient and easy to conduct. They optimize the balance between facility energy efficiency and occupant health & comfort. Identify potential IAQ issues before they become problems and respond immediately to complaints with the highly accurate, extremely advanced and most intuitive portable IAQ meters and test instrumentation available today.

These IAQ meters are designed for both walk-thru surveys and for long term (hours/days/weeks) trend logging: the 2 modes necessary for thorough indoor air quality investigations.



### Other Products:

- ❖ Toxic Gas Test Instruments
- ❖ TVOC (PID) Monitor
- ❖ Air Velocity Meter
- ❖ Differential Pressure Digital Manometers
- ❖ Pitot tube Airflow
- ❖ Carbon Dioxide Test Meters
- ❖ Relative Humidity (%RH) Instrument
- ❖ Ammonia, Ozone, H<sub>2</sub>S, HCN, CO<sub>2</sub>, CO, NO, NO<sub>2</sub>, EtO, Cl<sub>2</sub>, HCl other specific gas parameters
- ❖ Formaldehyde Data-Logger, stand-alone Monitor
- ❖ Particulate Concentration, Particle Count Sensors
- ❖ Laboratory Fumehood Test Instrumentation
- ❖ Advanced Report Generator; efficient, detailed professional Environmental Reports
- ❖ Indoor Environmental IEQ, IAQ Survey Meters
- ❖ Volume Flow & Ventilation Test Meter



## PRINCIPAL – AIR QUALITY ENGINEERING



A wide variety of air cleaners, purifiers and air filtration systems for commercial and home applications.

Products include:

- ❖ Smokemaster® line of ESP for tobacco smoke
- ❖ Miracle Air & EverClear line of HEPA type media air cleaners
- ❖ Fume Fighter line fume filtration equipment for solder fumes
- ❖ Mist Buster line of oil and mist collectors.



## PRINCIPAL – MARS



Air Curtains for all climates and environmental conditions since 1962. Air Doors stabilize environment by controlling energy, climate, fumes, insects and dust. It also acts as a barrier between smoking and non-smoking areas.

Products include:

- ❖ Lo-Pro for Commercial & Quiet applications
- ❖ Standard HV & EP Series for Industrial applications
- ❖ HEPAC Air curtains for hospitals & Clean rooms





## PRINCIPAL – CARIBBEAN CLEAR



Ionization system, based on the NASA technology - A computer monitors the water condition and electrode wear and then introduces minute amounts of copper and silver ions into the water. Copper is an excellent algacide and the EPA reports that extremely small amounts of silver are sufficient to sterilize water.

Computerized automatic controller can inject right amount of copper and silver ions and also dose right amount of Chlorine/Bromine and Hydrochloric acid to maintain the balance of pH in the swimming pool water.

Caribbean Clear offers a full line of copper/silver ionization products for spas, backyard pools and commercial applications. Experience has shown that matching ionization performance with water volume and the water's characteristics is important for proper performance and optimum efficiency. Each Caribbean Clear system offers at least 10 output settings which allow full control of the ionization output and the resulting levels of copper and silver. Periodic testing with the included test kit will allow the pool operator to determine the copper level and make any adjustments necessary.



## PRINCIPAL – TRAFFIC LOGIX

### *Radar Speed Signs*



SafePace 100 – Portable compact solution offering exceptional visibility and power efficiency at remarkably affordable pricing.

SafePace 400 – is a static “YOUR SPEED” radar speed sign, competitively priced, with full range of functionality and outstanding features such as easy-to-use management software, sign scheduling, data collection, robust statistical reporting, low power consumption and unique vandal resistant construction.

SafePace 600 – this versatile radar feedback sign has two lines of completely customizable LEDs that can display text, graphics, or animation. Displays chosen message(s), based on scheduling or driver behavior, ranging from just speed alerts to notifications about an event, construction or dangerous road conditions.

SafePace 700 – similar to Safe Pace 600 except for larger display digits.

SafePace 800 – offers unparalleled versatility with both radar speed display and variable message board in one streamlined sign), based on scheduling or driver behavior. The full matrix LED sign can be rotated from a vertical driver feedback sign to a horizontal message board.

School Zone Systems – protects children around their schools by reducing the speed of passing cars and decreasing the likelihood of vehicle accidents. The school zone flashing signs are a low cost, low maintenance traffic calming alternative that ensures children can walk and bike to school safely. The flashing school zone system accommodates any of the Traffic Logix SafePace radar speed display signs.

SafePace Beacon System – provides a visual alert to drivers of changed driving conditions such as school zones, pedestrian crossing, or construction ahead, proven to improve safety by making drivers more vigilant and are a low-cost, low-maintenance solution.

### *Modular Rubber Solutions*



- ❖ Speed Humps – Traditional traffic calming to slow cars on residential streets.

- ❖ Speed Tables – Flat topped speed humps for more gradual speed reduction.

- ❖ Speed Cushions – Series of small speed humps that slow cars without impeding emergency



vehicles.

- ❖ Speed Bumps – Highly visible speed bumps slow traffic to between 2-5 mph
- ❖ Alley Bumps – Designed to address speeding and cut-through in alleyways.





## PRINCIPAL – CARMANAH

We have ventured into the business Airfield Safety & other solutions with an intention of serving all the major International and National Airports in the GCC Region and other countries as well.

### *Airfield Lighting*



We provide a wide range of flexible airfield lighting solutions using the most cost-efficient and scalable solar energy source.

The durable airfield systems install within hours for maintenance-free operations without grid power, buried cable or airfield electrical vaults. With rugged, wire-free designs and sophisticated solar energy management systems, these products are ideally suited for use at locations around the globe.

Product Range:

- ❖ PAPI / APAPI (Precision Approach Path Indicators)
- ❖ Runway Lighting
- ❖ Taxiway & Apron Lights
- ❖ ERGL
- ❖ Helipad Lighting
- ❖ Wind Cones
- ❖ Airfield Signs
- ❖ Wireless Controls
- ❖ Obstruction Marking



## PRINCIPAL – DIGITEX

Integrated Public Warning System includes:

- Digital Public Warning and Notification System for Industries
- Digital People Warning System
- DSE Electronic Sirens



**digitex**®  
od 1985

## PRINCIPAL – OWLS

Owls Security System Combines:

- Embedded, invisible IP-Camera
- Optimized LED-lighting
- CCTV security and analytics
- Customized added value

In an **ALL-IN-ONE** solution.



## ENVIRONMENT DIVISION

### PRINCIPAL – ENVIRONMENTAL SYSTEMS PRODUCTS INC.



Environmental Systems Products, Inc., USA knows more about vehicle emissions testing than any other Environmental based company in the world. For more than 25 years, with over 70 patents for emissions testing and related products and more than 13,000,000 vehicle emissions tests conducted around the world each year, its no wonder that ESP has advanced into a state-of-the-art leader in practical remote sensing technology.



AccuScan 4000 combines highly advanced windows based software with established remote sensing technology to direct an infrared beam across any street or highway, entrance or exit ramp, parking lot lane or other roadway to a compact, unobtrusive Analyser module. When a vehicle passes, the system automatically:

- ❖ Reads its exhaust plume in less than a second
- ❖ Determines concentrations of HC, CO, CO<sub>2</sub> and NO<sub>x</sub>
- ❖ Records and Stores the data for later retrieval
- ❖ Captures an image of the vehicle's license plate for reference purposes
- ❖ Records the speed of the vehicle as it passes for measurement validation



## PRINCIPAL - E INSTRUMENTS



We supply the complete range from US manufacturers E Instruments who provide innovative instrumentation solutions that encompass combustion gas analysers, calibrators and Test & Measurement equipment.

These instruments are designed to be used in the power process, industrial, institutional, food and HVAC markets. The measurements include O<sub>2</sub>, CO<sub>2</sub>, CO, NO, NO<sub>2</sub>, SO<sub>2</sub>, C<sub>x</sub>H<sub>y</sub>, H<sub>2</sub>S, temperature, Draft, Velocity and efficiency among other parameters.





## PRINCIPAL – TECORA

### *Dioxin Emission Continuous Monitoring*

DECS is the solution for the continuous emission sampling of dioxin, furans (PCDD/PCDF), PCB and other POP's. It is permanently installed on stack for continuous sampling from 6 hours up to 6 weeks. According to EN1948 and USEPA 23, DECS adopts the filter condenser method with adsorbing trap on wet gas.



### *Portable Ambient Air Quality Monitor*

These types of Portable monitors can be used to monitor air quality in urban spots, roadside and even used for risk assessment in work places. The parameters available are NOx, CO, CO2, O3 and PM.



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- ❖ Formaldehyde Data-Logger, stand-alone Monitor
- ❖ Particulate Concentration, Particle Count Sensors
- ❖ Laboratory Fumehood Test Instrumentation
- ❖ Advanced Report Generator; efficient, detailed professional Environmental Reports
- ❖ Indoor Environmental IEQ, IAQ Survey Meters
- ❖ Volume Flow & Ventilation Test Meter



## PRINCIPAL – UNITEC



UniTec Srl was founded in year 2000 to design, develop and manufacture innovative instruments in the field of air quality monitoring. With their experience in the market of air quality and water continuous monitoring systems, they provide Consulting, Design and Support Services to our customers.



The ETL3000 is a multi-component air quality monitor for measuring airborne pollutants in parts per billion (ppb) concentrations. The system is based on a new solid-state thick-film sensor technology, which provides excellent sensitivity and accuracy. The performance of the sensors is superior to conventional electrochemical cells. The monitor provides measurement of CO, NO<sub>2</sub> and O<sub>3</sub>. In addition, temperature, humidity and noise is simultaneously measured. The system has a built-in data logger and a GSM modem (optional). Analysis of C<sub>6</sub>H<sub>6</sub> and other parameters with thick film sensor is also available as an option.



The ETL3000 is designed specifically for outdoor installation. A mounting kit is supplied, suitable for any pole diameter. The electronic part is now based on a microprocessor with flash memory and it is completely separated by the sensors. Each sensor is independent and is installed inside its cell (SENS3000) and connected to the electronic with plug-play connectors. The sensors can be replaced easily in the field.



Our innovative application of Mobile Monitoring of Traffic Pollution in cities can be done by installing the ETLBUS system on public transport vehicles and positioning using GPS. It is possible to develop special custom applications of ETLBUS and software with GIS system to handle also instantaneous data positioned on the local map.



## PRINCIPAL – NEO MONITORS

### *Open Path Monitor*



NEO Monitors LaserGasTMII Open Path (OP) Monitor is a compact, high performance gas analyzer for long distance monitoring in ambient air. Measurement lengths of up to 1000 m. The OP Monitor utilizes a transmitter / reflector configuration to measure the average gas concentration along the optical line-of-sight. As option a self-contained, battery-powered version is available with a control keypad and a flash memory for data logging.

The monitor is installed on our proprietary x/y alignment platform (goniometer). Adapters for fixed installation on platforms or for tripod use are available. The instrument also includes a visible aiming laser and sighting optics for easy alignment even over long distances. Hoods for protection of the optical windows on transceiver and reflector side can be supplied.



#### **Product application:**

C<sub>2</sub>H<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>, C<sub>3</sub>H<sub>6</sub>, CH<sub>4</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>O, H<sub>2</sub>S, HCL, HCN, HF, N<sub>2</sub>O, NH<sub>3</sub>, NO, NO<sub>2</sub>, O<sub>2</sub>, VCM

### *TDLS Analyzer*



The first all-in-one TDLS analyzer is a complete gamechanger.

NEO Monitors' LaserGasTM iQ2 analyzer is the first to measure four gases (O<sub>2</sub>, CO, CH<sub>4</sub>, H<sub>2</sub>O) and temperature in one unit, which eliminates the need for multiple units for combustion analysis. The cutting-edge design and ground-breaking functionality, ensures that the instrument delivers unmatched reliability and durability.

LaserGasTM iQ2 is developed on a well proven technology platform. With innovative design and extraordinary spectroscopically and optical solutions, the customer gets an accurate and reliable analyser solving application needs such as FCC units, package boilers, process heaters, electrostatic precipitators, VCM waste gas recovery, reformer gas, incinerator and so forth

By providing an optional single flange or cross stack configuration, installation cost can be significantly reduced. Customers may replace existing analysers where explosion risks or high maintenance issues are a huge concern.



#### PRINCIPAL – 01 DB METRAVIB



Noise and vibration monitoring systems have been developed with clear objectives in mind:

- ❖ Flawless metrology
- ❖ Innovative technologies appropriate for monitoring
- ❖ A range of services to suit every need (data sales, sales of turnkey projects, publication on a dedicated website, etc.)

The issue of monitoring noise and vibrations has been attracting increasing levels of attention in a variety of fields, including construction, motor sports, town planning and the industrial sector. We have a wide variety of instruments to suit each individual need.



#### PRINCIPAL – LAMTEC

Sensors and Systems for combustion technology with reliability and efficiency of the highest standards on functionality define our product range since more than 15 years. The O<sub>2</sub>-control system was introduced into the market in 1982.



systems.

These systems increase the power plants' efficiency; reduce fuel consumption and particularly the emission of polluting CO<sub>2</sub>. Doing so, we attach importance on our in-house development and manufacturing as well as a universal and technician-friendly application of our





## PRINCIPAL – ION SCIENCE

We deal in a wide range of technologically advanced VOC detectors, leak detectors, benzene monitors, mercury analysers and corrosion monitors, all distributed worldwide

- ❖ Benzene Monitors
- ❖ GasCheck Leak Detectors
- ❖ Ground Gas Monitors
- ❖ Hydrogen Flux Monitors
- ❖ Mercury Vapour Detectors
- ❖ PID / VOC Detectors
- ❖ SF6 Gas Leak Detectors

### ***Corvus Indoor Air Quality Monitor***



Corvus is a continuous, wireless VOC monitor for Indoor Air Quality (IAQ) containing sensors for temperature, barometric pressure and humidity. Corvus utilizes high sense technology detecting Volatile Organic Compounds (VOCs) down to low parts-per-billion (ppb) levels. Its wireless capabilities allow a network of up to twenty instruments to be deployed around the building, with data downloaded and managed via just the one instrument.

### ***LEO Multi-gas Monitor***



LEO is a portable multi-gas monitor providing accurate detection for workers against volatile organic compounds (VOCs). LEO measures and displays up to 5 gases simultaneously, is fully programmable with on-board data logging and is an ideal tool for confined space applications

### ***Tiger Select – Benzene & Total Aromatic Compound (TAC) detection in one instrument***



The Tiger Select is revolutionary hand-held gas detector with two mode operation for the rapid detection of benzene and Total Aromatic Compounds (TACs) providing accurate, reliable data you can count on.

Utilizing the high output Ion Science 10.0eV detection system, a reading for Total Aromatic Compounds (TACs) is seen immediately on start-up. Should aromatics be detected, a Draeger benzene pre-filter tube can be easily attached to ensure rapid detection and selective measurement of benzene

### **GasCheck Leak Detectors:**



Technologically advanced gas detectors, PID/VOC detectors, SF6 leak detectors, mercury analysers and corrosion monitors, etc. are distributed worldwide.

The GasCheck G gas leak detector represents the latest in gas detection technology. Its advanced system of micro thermal conductivity enables improved sensitivity for the rapid, effective detection of gas leaks down to cc/sec, mg/m<sup>3</sup> or ppm levels.

Designed for the search and location of gas leaks, the GasCheck G leak detector provides you with effective detection of almost any gas or gas mixture. Robust and reliable, the GasCheck G leak detector gives stable, repeatable readings of the detected gas. The instrument's LCD display, LED indicator and audible sounder clearly indicate the leak present.

### **PID/VOC Detectors:**



The Tiger VOC detector is a revolutionary hand held PID instrument for rapid, accurate detection of volatile organic compounds (VOCs). Its photoionization detection (PID) capabilities utilise advanced patented Fence Electrode technology, a 3 electrode format with increased resistance to humidity and contamination.

A robust hand held VOC detector, Tiger provides a dynamic detection range of 1 parts per billion (ppb) to 20,000 parts per million (ppm), offering the widest measurement range of any other VOC detector on the market.



Cub is a personal photoionization detection (PID) gas monitor for the fast, accurate detection of volatile organic and total aromatic compounds, keeping you safe within your working environment. With market leading parts-per-billion (ppb) sensitivity, Cub sets the standard in personal gas monitoring giving an early warning of exposure to hazardous gases, including benzene.

Comfortable and unobtrusive to wear, Cub is the smallest, lightest, personal PID gas monitor available. Cub has a dynamic range of 1 ppb to 5000 ppm, the widest on the market measuring 480 selectable compounds.

The Cub personal PID gas monitor is available as a standard instrument with 10.6 eV lamp for accurately detecting a wide range of volatile organic compounds (VOCs) to parts-per-million (ppm) levels. The CubTAC ppm variant with 10.0 eV lamp accurately detects total aromatic compounds (TACs), including benzene. Both models can be upgraded with parts-per-billion (ppb) sensitivity quickly and easily via our micro website.

### **Benzene Monitors:**



The latest product is the Titan benzene selective monitor a world first in the specific detection of benzene with no cross sensitivity to other VOC gases. Set to change the game in refinery applications, the instrument detects benzene at sub ppm levels collecting continuous, real time data and hence is the first truly selective benzene monitor in the market.

The instrument is wall-mounted with a dynamic range detecting benzene for 0.1 - 20 ppm. Titan samples gas from the environment once per minute and within just 60 seconds an accurate benzene measurement is displayed.



## **PRINCIPAL – LAND AMETEK**

### ***Land Calibration Laboratory - Dronfield***



The LAND calibration facility was formed so that customer requirements for temperature calibration can be satisfied.

The laboratory offers a comprehensive service for the calibration of temperature sensors and sources including; radiation thermometers, thermal imagers, thermocouples and blackbody sources.

The LAND laboratory, in the UK, was the first to be accredited in 1970 for the issue of Calibration Certificates in the field of thermal

measurements and was also the first to be accredited for the issue of certificates that meet the requirements of ISO 17025.

### ***Re-Calibration Reminder Service***

Regular traceable calibration is essential for temperature measuring equipment if accuracy is to be maintained. Many authorities, particularly the Ministry of Defence and Rolls Royce specify the frequency of re-calibration for sub-contractor's instruments.

Remembering re-calibration dates is often a cause of trouble and concern, particularly when more than one type of device is used, as thermocouples, radiation thermometers and potentiometers all have different re-calibration frequencies.

In order to remove this burden from the instrumentation engineer we have introduced a Re-Calibration Reminder Service. With this service customer automatically receive a written reminder when any item of temperature measuring equipment is due for re-calibration.

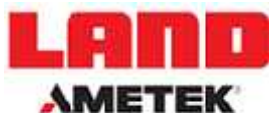
### ***Emissivity Determination***

For accurate temperature measurement with radiation thermometers the emissivity of the measured surface must be determined.

For customers who do not have the necessary equipment and know-how to obtain this vital parameter LAND provide a service which is fast, convenient and accurate.

Simply send a sample to our laboratory together with your order.

We will conduct the required tests and return the sample with the emissivity information. Ideally the sample should be supplied as a 50mm diameter disc. We will extract a suitable sample from your material in our laboratory as an extra service.



## CATHODIC PROTECTION DIVISION

Since its inception, Newtech has been participating in the cathodic protection tenders. We started our co-operation with Cathodic Protection Company Ltd, (CPC), UK in the year 2001 and secured our first order from the Ministry of Electricity & Water. From then onwards, Newtech has been securing orders for providing CP systems for Pipe lines (both sacrificial and ICCP), Water tanks, Concrete Steel structures, Deep well anode beds (ICCP) & Vessels etc.

This is a technique used to prevent corrosion of metal surfaces by making it the cathode of an electrochemical cell. This can be used for underground pipelines and other structures where passive galvanic cathodic protection is not adequate.

Cathodic Protection products and solutions for pipelines, storage tanks (internals & externals) power stations, pilings etc.

### PRODUCTS

- ❖ Transformer rectifiers
- ❖ Anode, cathode and bond boxes
- ❖ Refine reference electrodes and coupons
- ❖ Mixed metal oxide, Silicon iron & Galvanic anodes
- ❖ Test stations and survey equipment
- ❖ Cable & cable accessories, Isolation flange kits and joints
- ❖ Electro-mechanical, Engineering, Metal Finishing & Aerospace equipment
- ❖ Equipment and components from special grade materials like Tantalum etc.
- ❖ Electrolysers and chlorinators



### CP Anodes



- ❖ Tubular String Anodes for Impressed Current
- ❖ Embedded Civil Probe Anodes
- ❖ MMO (Mixed Metal Oxide) Coated Disc Anodes for Impressed Current



### PT Anodes

- ❖ Platinized Titanium Mesh Electrodes for Electrolysis
- ❖ Platinized Titanium Anodes for Pronter Roller

❖ Platinized Titanium Multi Slot Anodes for Silver Plating





## GENERAL SERVICES DIVISION

### CATHODIC PROTECTION



Newtech have vast experience in this field and have conducted various jobs on a large scale around the Middle East.

This is a technique used to prevent corrosion of metal surfaces by making it the cathode of an electrochemical cell. This can be used for underground pipelines and other structures where passive galvanic cathodic protection is not adequate.

Cathodic Protection products and solutions for pipelines, storage tanks (internals & externals) power stations, pilings etc.

#### Engineering Services

- ❖ Feasibility, Economic Studies & Site Investigations
- ❖ Consultancy, Specialist Advice & Training
- ❖ Planning, Project Designs, Project Management
- ❖ Materials Supply, Installation, Supervision & Commissioning
- ❖ Cost Estimates, Specifications & Bills of Materials
- ❖ Specialist Surveys (CIPS, DCVG, Pearson)
- ❖ Recoating / refurbishment services
- ❖ Impressed Current Cathodic Protection

