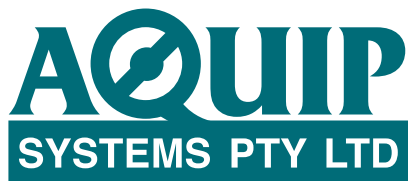




Industrial Instrumentation & Associated Services





COMPANY OVERVIEW

Aquip Systems – Delivering high quality products and specialist service in Australia for over 25 years.

Representing world leading brands in industrial instrumentation and providing specialist services to various industries across Australia including:

- Oil & Gas
- Petroleum
- Mining
- HVAC
- Water & Waste Water
- Marine
- Chemicals
- Defence
- Power
- Manufacturing and Processing

Due to our long-standing relationships with our principals, we can offer our customers the highest level of product expertise. The end result is a well-engineered product and service solution designed for your applications, delivered on time and within budget to meet and exceed your expectations.

Our after-sales support is just as important to us. We have workshops in Bentley and O'Connor in Western Australia and Warriewood in NSW, that are fully equipped to handle equipment repairs, calibration checks and upgrades. We carry an extensive range of products, accessories and spares to ensure efficient turnaround for our customers. Technical advice and training is also available and is vital to achieving the best possible results from our customers' equipment and maintenance programs.



FLOW METERS



At Aquip Systems we supply meters for measuring the flow of a diverse range of fluids and gases in all kinds of applications. In addition to flow, some technologies can also measure chemical concentration for process control, interface detection, or even energy flow across a heat exchanger. Our range of flow meters and ancillary products include:

ULTRASONIC CLAMP ON METERS

- Non-intrusive clamp-on meters
- Measurements of liquids, gas and chemicals
- Able to measure pipe sizes between 10 - 6500mm
- Meters available for use in hazardous areas
- No drift over time

POSITIVE DISPLACEMENT METERS

- Capable of measuring highly viscous fluids
- Able to measure a wide range of flow rates
- High Accuracy

INSERTION PADDLE FLOW METERS

- Can install on pipes from 1" – 100"
- Accommodate very high flow rates

DIFFERENTIAL PRESSURE FLOW METERS

- Highly reliable, versatile and adaptable
- No moving parts

TURBINE METERS

- High accuracy
- Easy to install
- Fast rate of response

MULTI PULSE METERS

- High accuracy and repeatability, direct reading flowmeters
- No need for flow conditioning
- Simple to install, easy to maintain

PRECISION METERS

- High accuracy
- High variety of sizes and fitting options

CORIOLIS METERS

- Suitable for sanitary applications
- Highly reliable
- Excel in line sizes of 2" and less

We work closely with our Principals to ensure we deliver a product that best suits your application.

Our Ultrasonic Flow Meters are available for hire along with our highly experienced Service Engineers who are available to carry out any service work required for the job. Please refer to page 8 for more information.



ULTRASONIC INTELLIGENT SENSORS



ClampOn products are based on a well proven technology platform. Both the topside and the subsea instruments incorporate Digital Signal Processing (DSP), this complete digitalisation eliminates analogue filters, circuits and amplifiers.

Products include:

- **PARTICLE / SAND DETECTORS**
- **PIG DETECTORS**
- **CORROSION-EROSION MONITORS**
- **VIBRATION MONITORS**
- **LEAK MONITORS**

The ClampOn Ultrasonic Intelligent Sensor processes all data in the sensor itself (patented principle), thus enabling the instrument to differentiate between sand-generated and flow-generated noise. This is of importance to the user since changes in flow rates and the gas/oil ratio will not affect the performance of the system.

Some features and benefits include:

- Non-invasive
- Digital Signal Processing (DSP)
- Complete digitalisation
- No analogue filters, circuits or amplifiers

- Two-way communication
- Real-time measurement
- Easy to relocate
- Contains no moving parts
- Can be mounted in hostile environments
- Incorporates sensitive, intelligent, intrinsically safe sensors
- Can be upgraded by software download
- Can store up to 60 days of measurement data within the sensor itself
- Self-testing capabilities
- Built-in temperature sensor and accelerometer (optional)
- User-friendly software for Windows™

Aquip offer experienced Service Engineers to monitor well start up. We also provide online monitoring services. Please refer to page 8 for more information.

GAS & FLAME DETECTION



GAS
SECURE



At Aquip Systems, we offer a wide range of gas and flame detection instruments, for all types of safety critical applications to suit your needs.

With world leading brands on offer you can choose from a range of products including:

ULTRASONIC GAS LEAK DETECTOR

- Artificial Neural Network for improved detection range and prevents false alarms
- Detects very low gas leaks from 2 BAR (29 psi)

WIRELESS IR DETECTOR

- Completely wireless (no cables) reduced installation costs
- Long battery life due to low power consumption of 5mw

FLAME DETECTORS

- Multi-spectrum IR for increased range and wide field of view
- Neural network technology provides superior false alarm immunity

IR POINT DETECTORS

- No routine calibration required for reduced maintenance costs
- Heated optics to reduce condensation

TOXIC GAS DETECTORS

- Monitors a large variety of toxic gases
- Non-intrusive one person adjustment free calibration

REFRIGERANT DETECTORS

- Minimum detection level of 20 ppm
- Single point diffusion or 4 point pumped models

OPEN PATH IR DETECTOR

- Dual detection ranges for small ppm and large LEL gas leaks
- Single detection beam for improved accuracy and reduced drift

CONTROL SYSTEMS

- Highly configurable small six channel controllers through to large scalable Allen Bradley systems
- Multiple communication inputs and outputs

FIRE DETECTION SYSTEMS



At Aquip Systems, we supply fire detection systems from Autronica, a global leading and innovating manufacturer

Autronica have been developing specialised safety equipment for 50+ years and their products ensure safety in applications on land and sea worldwide for the marine and oil and gas industries.

Autronica detection systems are developed for worldwide standards and regulations and conform to maritime and oil and gas industry requirements. The main systems that are available are:

- **AUTOPRIME** – small to medium sized applications
- **AUTROSAFE** – large and complex installations
- **AUTROSAFE 4IFG - SIL2 CERTIFIED** – specifically for the oil & gas industry

In addition to the panels we also supply detectors, manual call points, control units, audio visual units, input/output units and other loop units.

Aquip Systems have a team of dedicated and Autronica trained specialists who continue to provide support and service Australia wide. For onshore, offshore and marine we specialise in rapid response to ensure our customers maximise their availability.

LASER SHAFT ALIGNMENT EQUIPMENT



PRÜFTECHNIK are the inventors and world leaders in laser shaft alignment equipment and you can confidently tackle all of your alignment tasks from a simple pump/motor to complex time critical alignments.

- Rotalign Touch - High end
- Optalign Smart - Intermediate level
- Shaftalign - Entry level
- Live Trend - Positional displacement

Features and benefits:

- Ambient light resistant - use in any light conditions
- Single laser and 2 plane sensors - allows for easy setup
- Laser system accommodates for coupling backlash
- Intelligent sensors make it easier than ever to have quality data
- Measurement modes – Sweep, Pass Mode, Static and Multipoint
- Bluetooth and WIFI enabled - eliminate cables
- RFID - machine tag system
- Cloud based software - connect from anywhere, archive and report with ease

GEOMETRIC EQUIPMENT

The PRÜFTECHNIK range of geometric equipment is perfect for measurement tasks such as flatness, straightness, levelness, perpendicularity and bore alignments.

They can improve the installation and reliability of equipment. Geometric measurements are a simplified task when using PRÜFTECHNIK equipment.

- Levalign Expert - Rotating laser, 100m range
- Levalign Ultra - Flatness/straightness laser
- Inclineo - High accuracy inclinometer
- Centralign - Bore alignment

ALIGNMENT ACCESSORIES

PRÜFTECHNIK have a range of accessories including shims, cables, specialised brackets, software and induction bearing heaters available.

RENTALS AND SERVICES

Our Rotaligns, Optaligns, Live trend, Levalign Expert, Levalign Ultra and Centralign are available for hire along with our highly experienced service Engineers who are available to carry out any service work or training required for the job. Please refer to page 8 for more information.

CONDITION MONITORING EQUIPMENT



Condition Monitoring can be a once off, regular or comprehensive task. PRÜFTECHNIK have a vast range of portable equipment to collect and analyse data. Paired with the Omnitrend software you have an intelligent database and vibration analysis program.

- VibXpert II - State of the art analyser and data collector
- VibXpert Ex - Ex rated analyser and data collector
- Vibscanner - Data collector
- Vibrotip - Data collector
- Omnitrend - Software platform

Features and benefits include:

- High resolution - up to 102400 lines
- Light weight - great for regular use
- Many solutions to fit your requirements
- Database management solutions - work remotely with ease
- Cost effective - no annual fees for software or firmware

ONLINE CONDITION MONITORING EQUIPMENT

PRÜFTECHNIK have a comprehensive range of online systems enabling you to continuously monitor your production critical machines. Features include an alert system that notifies you when there is a fault via SMS, email or process control.

- Vibguard - 20 channel synchronous
- Vibronet - up to 162 channels
- Vibconnect - Wireless monitoring

- Vibnode - For many regular applications
- Vibrex - Machinery protection

CONDITION MONITORING ACCESSORIES

Aquip hold a variety of PRÜFTECHNIK cables, accelerometers, batteries, transducers, sensors, temperature probes and replacement parts in stock for your convenience.

RENTALS AND SERVICES

Our VibXpert II, Vibconnect and Vibnode are available for hire along with our highly experienced Service Engineers who are available to carry out any service work or training required for the job. Please refer to page 8 for more information.

SERVICE, TRAINING & EQUIPMENT HIRE



ON SITE SERVICE AND SUPPORT

Aquip Systems have a team of highly experienced Service Engineers available on short notice to mobilise to your facility. The following services are provided:

- Installation and commissioning
- Troubleshooting and repair - restoration of products to design condition
- Surveys
- Reporting
- Verification of equipment
- Periodic calibration and maintenance
- Technical reports for all services provided

SERVICE CONTRACTS

Service contracts are available to meet your requirements for preventive maintenance, general maintenance and calibration services.

Aquip Systems run the sole PRÜFTECHNIK Certified Service Centre in Australia.

Our Service Technicians are able to complete calibration checks and perform repairs in house.

We stock a range of spares and accessories and are generally able to turn around your instrument within 24 to 48 hours.

EQUIPMENT HIRE

We maintain a catalogue of niche products including flowmeters, laser alignment and condition monitoring equipment for long and short term hire. We are available 24 hours a day to provide technical support to ensure successful use of our equipment.

TRAINING

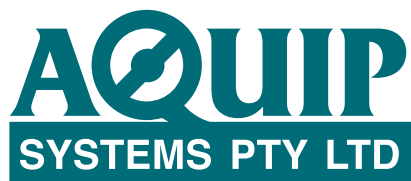
The proper use of equipment and utilising best practises and procedures is an excellent way of increasing productivity and profitability.

Aquip Systems conduct formal training in

- Laser Alignment of Rotating Machinery
- Condition Monitoring Fundamentals
- All aspects of Flow including flow profiling, management and verification
- Sand Monitoring and well optimisation techniques

All courses give an insight into the fundamentals of the product, software and applications where they can be used.





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