

QUALITY | EXPERIENCE | VALUE



## GET THE RIGHT MEASUREMENT TECHNOLOGY

**With 35+ years in process measurement applications we can help you apply the correct technology for all measurement solutions**

Instrumatics has been involved in many changes through its history, but some things remain constant:

The company is committed to supplying only the highest quality products and adding value through innovative engineered solutions.

This is supported by outstanding customer service and support.

We host a wide range of quality and innovative agencies - with the intellectual property and experience required to transform these products into customer specific, tailored innovative solutions.







From the Petrochemical to Water Utility to the Food Industry, Instrumatics offers a range of products with unmatched accuracy and stability. Whether you require a portable instrument for hands-on testing, or full range of instrumentation including design, our friendly team is experienced in offering the right advice for the right project requirement.

[www.instrumatics.co.nz](http://www.instrumatics.co.nz)

**Industry-leading partners provide Instrumentation products to suit any application within the process industries**

## Flow Measurement

### Liquid flow measurement

- Magnetic flow meters for full and part full pipes
- Open channel flow using magnetic and ultrasonic sensors
- Non invasive flow measurement using ultrasonics - doppler and time of flight

### Gas and vapour flow measurement

- Thermal dispersion
- Averaging pitot
- Hot wire
- Linear differential
- Mass flow
- Variable area



## Temperature, Signal Conditioners, I/O Modules, Data Logging and Indicators

- Ethernet, Profibus and Modbus Remote I/O, signal converters, alarm modules, math modules
- Temperature transmitters, temperature sensors, isolators, signal conditioners, humidity transmitters and digital displays
- Pneumatic relays, regulators and current to pneumatic converters, control valves
- Data logging
- Dry block temperature calibrators, stirred liquid bath temperature calibration systems. Precision calibration systems



## Level Measurement

**Continuous Level** is provided with leading edge technology for applications within a wide span of industries. Applications range from tank levels in the chemical industry, to water levels for utilities, to demanding media such as the aggregate and pulp/paper industries. New standards in accuracy and reliability use the following technologies:

- Radar
- Guided Microwave
- Ultrasonic
- Nucleonic
- Hydrostatic
- Capacitive

**Level Switches** for all applications ensure economical control of processes as tank or vessel levels reach high or low positions. Switches use a variety of technologies to ensure they operate flawlessly for many years in all types of media:

- Vibration
- Capacitive
- Conductive



## Pressure Measurement

### Process pressure transmitters

- Pressure transmitters using ceramic or metal diaphragms
- Pressure controllers, converters

### Submersible pressure

### Portable pressure instruments

- Sensors
- Gauges
- Manometers

## Gas Detection and Analysis

### Portable personal gas detectors

- Single and multi-channel instruments for oxygen, toxic and flammable gases
- Gas leak detection

### Fixed gas detection systems

- Sensors, monitors, control and sampling systems
- Infra-red gas detectors and monitors for carbon dioxide, methane, refrigerants
- Gas detectors for VOC's (volatile organic compound) measurement

### Analysers

- Oxygen analysers
- Wet gas analysers
- Stack analysers
- Combustion analysers



## Environmental, Water Quality and Samplers

- Suspended solids & turbidity sensors and transmitters. Water and wastewater analysers
- Industrial and Bio process pH, ORP and Dissolved Oxygen sensors
- PH, Conductivity, dissolved oxygen instrumentation, cooling tower controllers, conductivity cells
- Portable and fixed instruments for measuring temperature, humidity, pressure, air speed, light, acoustic and vibration, air quality, multifunction instruments, data loggers, weather stations, microclimate, environmental analysis and water analysis
- Water samplers
- Dust monitors
- Weather stations







## Customised Solutions

- Plant-specific controllers
- Tank, Liquid, Solid Level alarms
- Gas monitoring and sampling systems
- Gas detection systems for Health & Safety

## Engineering Services

- Instrument system design
- Installation
- Site commissioning
- Service
- Calibration
- Training courses

## Customized Control Panels

Designed exclusively for automation PLC-based control, Instrumatics Panels include effective display and control systems for ease of use and maintenance. Panels are available as either standard or customized units and can be purchased as per client requirements. Customized panels can be produced for existing plants that require in-field control, or supplied to be compatible with client PLC or process requirements.

Panels are compatible with all standard supply and include logic control inputs for remote control of user pre-programmed functions. Customized Panels can also be produced for Safety Monitoring of Gas Detection Equipment. This allows alarms and levels to be monitored throughout a plant or building from a central Security Monitoring point.



## Calibration & Service

Instrumatics provides the full process of instrumentation specification, installation and commissioning, allowing clients to focus on their core business activities. Subsequent to installation, Instrumatics offers a comprehensive service, calibration, repair and support portfolio. This ensures clients maintain peak plant efficiency and minimise cost of ownership. We will ensure your Gas Detection equipment is maintained on a regular basis and that it remains consistent with National Safety Regulations at all times.

Instrumatics offers a range of dedicated calibration products for clients that maintain their own instrumentation. Products are offered for calibration of pressure (including hand-pumps), bench testers and signal generators. Temperature calibration equipment is available to purchase by those who demand the highest accuracy and stability from dry or wet block calibrators.



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