

Welcome to another edition of 'Measurement Solutions' – Edition XXIII. Your reference to new and improved products for the process and water industries. In this issue we introduce a number of solution providers –

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## Measurement Solutions

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### Using EtherNet/IP in process automation

Since its invention in 1973, Ethernet has changed the world. It will continue to deliver the fastest data throughput and evolve into varying electromechanical spectrums to meet the next industry trend. Process and factory automation is no exception to the ever-reaching technological advancements of this network.

Ethernet-based networks are being used to connect robots, variable speed drives, and actuators to automation controllers. In the process control world, EtherNet/IP now connects field devices of all types to distributed control systems.

[Read more](#)

Ethernet is the most widely installed local area network (LAN) technology. Ethernet is a link layer protocol in the TCP/IP stack, describing how networked devices can format data for transmission to other network devices on the same network segment, and how to put that data out on the network connection.

Click [here](#) to see this insightful video

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## ACOMAG i2o Ethernet connectivity

*Ethernet I/O Solutions for Modbus TCP/IP,*

*Ethernet/IP, and Profinet Networks*

Acromag's [Ethernet/IP](#), [Modbus TCP I/O](#), and [Profinet](#) products offer a variety of solutions for remote I/O, distributed process control, and factory automation applications. Analog and discrete Ethernet I/O modules interface sensors and actuators to controllers with [Modbus TCP/IP](#) or Ethernet/IP [CIP](#) protocol network communication.

Click [here](#) for more information



## Status - NEW DM670 Battery Powered temperature transmitter

*Battery-powered temperature display - data to your phone*

Provides a powerful data logging function allowing you to monitor and recover data direct to your phone or tablet, then process and graph the data, and send it anywhere around the globe.

- Universal RTD or Thermocouple Input
- 3-character messaging and alert with 8 independent user-set temp bands
- Battery Powered
- USB configuration
- Dual relays, max/min information
- User set display messaging
- 5000 point logger with USB and NFC interface

Click [here](#) for more information

## Status - NEW temperature transmitter

*Upgraded transmitter offers user-*



### ***friendly adjustment via USB***

The SEM315 is a HART compatible universal transmitter. It accepts RTD, Thermocouple, Potentiometer or millivolt input signals and converts them to 4 to 20 mA or HART multidrop mode can be selected.

The SEM315 is programmed using a standard USB & Speedlink software downloaded from our web site.

Download information or interrogate the device enabling the following:-

- Simple re-ranging of sensor type and range
- Easy on site re-calibration
- Self documentation

Click [here](#) for the product datasheet



## **Customized panels**

### ***Localized control and automation***

Instrumatics panels offer microprocessor-based programmable control panels for the processing industry. Panels are unique to the industrial world and feature unique technology.

Panels are available as either standard or customized forms and can be purchased as per client requirements.

When discussing applications, we will ensure that panels are 100% compatible with current PLC or process requirements. Panels are compatible with all standard supply and has logic control inputs for remote control of user pre-programmed functions.

Click [here](#) for more information

## **SIGNATROL - process signal dataloggers**

***Upgraded transmitter offers user-friendly adjustment via USB***

Signatrol data loggers have a very flexible combination of inputs which can be individually configured with the software to accept any combination of the following input types:



- RTD / Pt100
- Thermocouple (Types J, K, T, R, S, B, N) with isolated tip
- 4/20mA
- 0-10VDC
- 0-100mV
- Various Thermistors
- Slidewire
- Cu Sensors
- Ni Sensors

Loggers have an internal temperature sensor and a digital input which can be used as a trigger to start logging or as a pulse counter

Find more information [here](#)

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## Contact Details

Visit us on [www.instrumatics.co.nz](http://www.instrumatics.co.nz) for information on our full range of products and services  
Or email us with your query [sales@instrumatics.co.nz](mailto:sales@instrumatics.co.nz)  
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