



July 2007

Transmitting Temperature Data

Historical July



7th July 1974

Engaged couple Jimmy Connors (21) and Chris Evert (19) both 3rd seeds, triumph at the Wimbledon Singles Champions.



10th July 1985

Rainbow Warrior is sabotaged & sunk by the French Intelligence Service (DGSE) in Auckland harbor.



21st July 1969

An estimated half billion people watch live as Neil Armstrong steps onto the Moon from the Apollo 11 lunar module.

Common Issues

Pt-100 RTD temperature sensors are industry standard for most low temperature ranges up to around 400°C. Many clients need to send temperature signals considerable distances to PLC's or multiplexing instruments. RTD's can be susceptible to electrical noise. Transmission over lengthy cables may also be expensive and requires good calibration. Additionally, RTD cards are expensive items for PLC's – particularly if few measurements are necessary.



Tin Man: Didn't have the required protocol

RTD to 4-20mA



In-Head: HART Capable Jumo T01 & Intech LPN-R-H

Intech Instruments produce a variety of signal transmission units aimed at providing clients with both isolation from noise / earth leaks but with the added bonus of reducing costs. Converting to 4-20mA signals lessens the need for expensive RTD cable and the need for separate RTD cards on PLC's.

Analogue or HART?

Some end users now have a preference for 'Highway Addressable Remote Transducer' or **HART** protocol communications. Protocols of this nature can provide the facility for online calibration, real time diagnostics and also the compatibility for simultaneous 4-20mA and digital data.

Plant Water Monitoring

Jumo's 'Analytical' range of instrumentation is now available within New Zealand. With units capable of measuring a range of analytical parameters from pH to Hydrogen Peroxide.



Jumo's Impressive Analytical Measurement Range

Designed for Pressure Situations



Midas

Pressure transmitters from JUMO make sure that relative (gauge) & absolute pressures in gases, liquids & viscous media are measured precisely. Piezoresistive & ceramic sensors provide excellent linearity and accuracy.



dTrans P30

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Team New Zealand use Intech hardware & software



Fly High: Make Contact with Intech Instruments

For almost 25 years Intech Instruments have been operating throughout New Zealand, servicing a variety of industries. Our product range is made up of both our own high quality manufactured products plus a range of first class imported items.

Our core business is concerned with supervisory, monitoring and control – utilising hardware and software facilities to provide a host of solutions for end users.

Based in Christchurch, where we have both a sales and service operation, Intech Instruments also have offices in Auckland and Hawkes Bay.

With a combination of industrial experiences and technical skills, Intech are able to provide customers with the best possible solutions for a variety of applications.

Class Calibration - Eurotron



MicroCal 10+

Few calibrators on the market match Eurotrons' formidable range. A host of versions exist for pressure & temperature in addition to some pretty neat multifunction units like the MicroCal 10+ (above). Call us for a quote today.

TruTrack Data Loggers

Popular because of their low cost, robust design and excellent software, TruTrack produce some innovative data logging units for many industries. Now available with USB interface, TruTrack units offer much but won't break the bank.



Captains log: Star Performing TruTrack

NIVELCO ULTRASONIC

Ultrasonic level control is 'Nivelco territory'.

The SEM / SEP series units (right) will measure the level of virtually any liquid & provide users with a 4-20mA or HART communication signal.

Available as 'blind' units or with the optional SAP-200 programming module, they are easy to set up and can also provide volume calculations with pre-programmed tank shapes.

In addition to 3/4 wire powered units, Intech also stock (SPA) 2-wire, loop powered units



Nivelco SEM / SEP Series