



March 2007

The Benefits of Isolation

Electrical noise is a problem that affects the vast majority of electrical communications.

There are two forms of 'noise', 'radiated' and 'conducted'. Both can have a major affect on the integrity of electrical systems used to communicate process information.

Historical March



7th March 1876

29 year old Alexander Graham Bell receives a patent for his revolutionary invention - the telephone.



14th March 1879

Albert Einstein, one of the greatest known Physicists was born 128 years ago in Ulm, Württemberg, Germany.

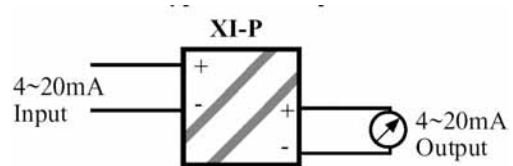


24th March 1989

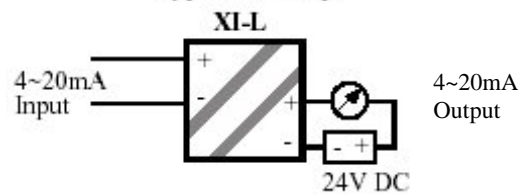
The Exxon Valdez hits The Prince William Sound's Bligh Reef (Alaska) and spills an estimated 11 to 30 million (US) Gallons of crude oil.



The Intech XI-4 (above) : Four Inputs & Four Outputs in a Single Can



Input powered XI-P



Loop powered XI-L

Noise is responsible for the familiar static observed on home radio receivers, the clicking sounds on FM radios operating in fringe areas, and the "snow" type granularity on television screens receiving weak signals. Noise provides a fundamental limitation to the distance that electrical signals may be sent or received.

Within the Intech ranks we have coined a phrase 'Isolation is King'. Ideally a signal source should be noise free and provide a clean signal. In practise this is difficult to achieve.

Whether loop powered or Input powered, a sure way to minimise noise and provide a clean signal to process is to use an isolator or isolating signal transmitter.



Sadly, Isolation Couldn't Stop This Man...

Need a Non Intrusive Flow Switch?



The SP-150: Non Intrusive

Flow measurements are particularly useful in a number of industries - either to measure quantities of fluid or simply to activate secondary devices via a switching output. Commonly, solids & particulates can render waste water or effluent can render traditional paddle switches useless by jamming them open or shut. Thermal dispersion flow switches do not suffer the same fate. Without any moving parts and using some clever physics, thermal dispersion flow switches provide service where other types of switch may fail.

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We need to monitor our natural resources carefully.



Make life easy: Contact 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.

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 provide customers with the best solutions possible.

Jumo Pressure Transmitters—RIDICULOUS PRICES

Jumo produce some of the finest hardware in the business. With the financial year coming to a close soon, we have unearthed some exceptional previous stock units that are available at clearance prices. **Limited numbers, so be fast!**

The Jumo 4341 transducer (Right).
Fixed range, 2 wire, 4-20mA
Price: \$170 per unit (net)



The Jumo 4-AP transducer (left).
Span & zero offset within the range.
Price: \$200 per unit (net)

Bad Vibrations Affect Your Temperatures

Pt-100's are the most widely used of all 'industrial standard' RTD's. If you are thinking of using RTD's where vibration may be an issue, make sure you specify powder packed or even mineral insulated units. This will increase the operational life of your probe and help prevent failures. Call Intech today for further details.



Intech Probes