



Intech INSTRUMENTS LTD

September 2008

Cost Saving PLC Tools

Historical September



18th September, 1970

Rock legend Jimi Hendrix dies after collapsing at a party in London. He was 27 years old.



25th September, 1926

Comedian Ronnie Barker, best known for his character Norman Stanley Fletcher in the TV series 'Porridge' is born in Bedford, UK



September 26th, 1944

British and Polish Airborne Troops retreat from Arnhem, Holland following the spectacular failure of Operation 'Market Garden'.

The vast majority of signal transducers provide analogue signals for monitoring or control devices to interpret. With so many digital control devices now being employed within industry, there is a greater need to interface analogue process signals with digital control devices.

Getting analogue information into PLC's is an expensive exercise. Input cards may cost anything from \$600 upwards for 8 channel devices. There are however alternative methods...

Intech's humble multiplexer units have been saving end users and integrators money for years. From time to time we like to remind people of what they might be missing out on:-

- ◆ 16 Universal Analogue Inputs
- ◆ Each Input Individually Selected & Scaled
- ◆ 16 Bit Resolution
- ◆ Differential Input for T/C, mV, V & mA
- ◆ T/C: B, E, K, J, N, R, S, T
- ◆ RTD: 0~225°C to -200~850°C
- ◆ mV: 0~25mV to ±500mV
- ◆ V: 0~1V to ±15V
- ◆ mA: 0~1mA to ±100mA
- ◆ 2 Analogue Outputs
- ◆ 4 Digital, Isolated, Optocoupler Inputs
- ◆ 2 Digital, Isolated, Relay Outputs



2100 Series (above) : A very inexpensive way to get analogue signals into PLC's

MODEL	PLC CHANNEL SELECT		COMMUNICATIONS			PROGRAMMABLE INPUTS	
	CLOCK - RESET	BCD	MICROSCAN RS485 RS422	MODBUS RTU (RS485)	MODBUS TCP (Ethernet Option)	UNIVERSAL INPUTS	FIXED INPUT TYPE PROGRAMMABLE RANGE
2100-A16	✓	✓	✓	✓	✓	✓	
2100-M	✓	✓					✓
2300 SERIES			✓	✓	✓		✓

For details regarding the 2300 series units [CLICK HERE](#)

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Spock: "Intech are clearly the logical choice".



The Intech Affect

- ◆ New Zealand owned & operated
- ◆ Service & sales facilities
- ◆ 25 years in the industry
- ◆ Experience you can rely on



Light Up Your Switchboard With APM Panel Meters

A product which has been attracting interest from all sectors is the new APM Panel Meter range from Trumeter in the UK. Designed to replace the moving coil meter (first produced in 43BC), these smart units provide both an 'analogue' display and a digital numerical LCD.

Advantages:

- ◆ No moving parts
- ◆ Bright backlit display means they are easily read in light or dark.
- ◆ IP65 front panel.
- ◆ Easy retrofit of existing units.
- ◆ Powered by measured voltage / current

Disadvantages:

(only if you don't have them?)



APM Panel Meters (above) are available in an array of colours to brighten up your switchboard

Isolate your signal to silence noise!



Intech PI Series transmitters

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.

Responsible for the familiar static observed on home radio receivers, the clicking sounds on FM radios and the "snow" type granularity on television screens receiving weak signals noise provides a major limitation to the distance an electrical process signal maybe sent or received.



Intech XJ Series transmitters