

# COST SAVING TOOLS

FOR PLC INTEGRATORS



16 channel Input Analogue Multiplexers  
MicroScan Real Time Monitoring  
Stand-alone Analogue and Digital  
Input/Output stations & PLC Accessories

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

# 2400 Series Multiplexers

## PLC analogue input expansion

Two 16 channel input Multiplexers to choose from:

### 1. 2400-A16 intelligent multiplexer

16 individually configurable inputs:

- RTD Pt100/Pt1000.
- Thermocouples B, E, K, J, N, R, S, T, with CJC.
- Milliamps 0~20mA, 0~2.5mA.
- Millivolts -25~25mV to -200~200mV.
- Voltage 0~1V to 0~15V.
- Pulse/Digital 0~2500Hz.

Modbus RTU / Modbus TCP.

16 Bit Resolution.

[www.intech.co.nz/2400-a16](http://www.intech.co.nz/2400-a16)

### 2. 2100-M analogue input multiplexer

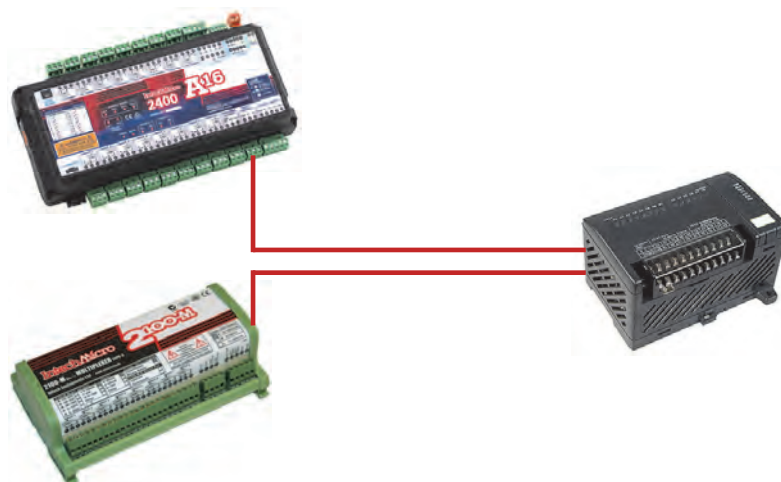
16 Analogue inputs.

High accuracy 0.1%.

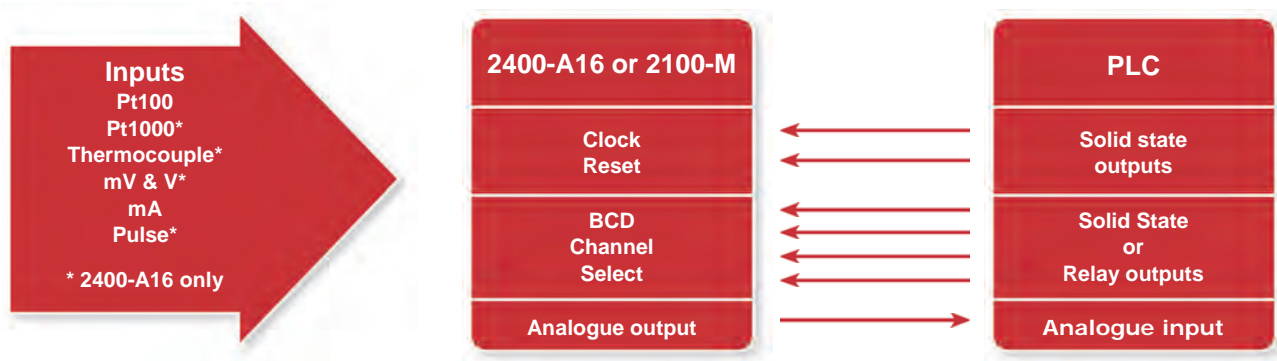
Field programmable ranges within each model.

- 2100-M-R = RTD Pt100 any span.
- 2100-M-I = mA any span.

[www.intech.co.nz/2100-m](http://www.intech.co.nz/2100-m)



Channel select by PLC is the same for both multiplexers:



MODEL	PLC CHANNEL SELECT		COMMUNICATIONS			PROGRAMMABLE INPUTS		POWER SUPPLY	
	CLOCK-RESET	BCD	MICROSCAN RS485 RS422	MODBUS RTU (RS485)	MODBUS TCP (Ethernet Option)	UNIVERSAL INPUTS	FIXED INPUT TYPE PROGRAMMABLE RANGE	12/24Vac/dc	110/240Vac
2400-A16	✓	✓	✓	✓	✓	✓		✓	✓
2100-M	✓	✓					✓	✓	✓
2300 SERIES			✓	✓	✓		✓	✓	

# 2300 Series - Input/Output stations

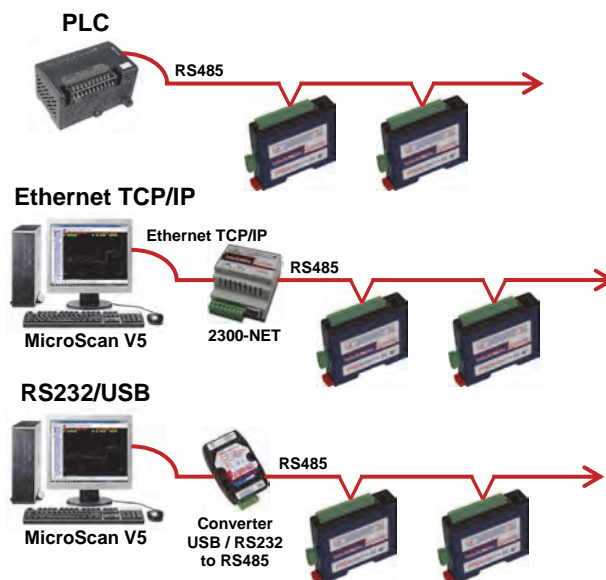
## Stand-alone Analogue & Digital

**Low cost**  
**MODBUS RTU with MODBUS TCP option**

- Low Cost I/O Remote Stations
- MicroScan V5 Compatible - Seamless Integration
- Plug-in connectors makes replacement easy
- Programmable Ranges within input type
- 1.0 kV or greater Isolation.
- 0.2% accuracy (12 Bit).
- Compact DIN rail mount enclosure
- LEDs indicate I/O status plus comms and Power Supply
- Power Supply: 24Vdc
- Comms Fail Alarm (Optional)

[www.intech.co.nz/2300](http://www.intech.co.nz/2300)

**Examples of connectivity**  
**PLC: Ethernet TCP/IP: USB/RS232:**



MODEL	2300-A8II	2300-A8VI	2300-Tc8	2300-RTD6	2300-MULTI	2300-D16	2300-RO4	2300-AO8I
TYPE	8 x 4~20mA Inputs Isolated	8 x Voltage Inputs Isolated	8 x Thermocouple & mV Inputs Isolated	6 x RTD Inputs	6 x Combination Inputs & Outputs	16 x Digital Inputs	4 x Relay Outputs	8 x 4~20mA Outputs

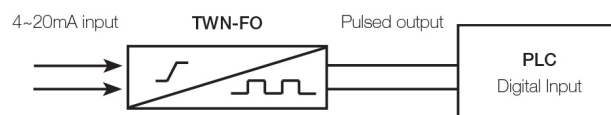
<b>2300-NET</b>	Ethernet TCP/IP to RS485 Converter, Isolating. The 2300-NET converts Ethernet TCP/IP to RS485 for communication to the 2300 series stations.
<b>PSW-10-F</b>	Instrument Quality Power Supply; Mains Input: 100~264Vac. Output Voltage: 24Vdc, 1.0A.



### PLC Accessories

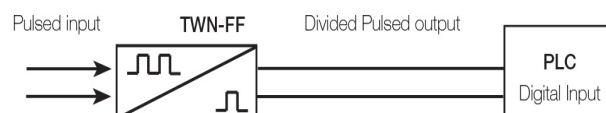
#### TWN-FO DC to Frequency Interface.

Converts a 4~20mA signal to a frequency for direct conversion into a PLC digital input. Standard output = 10~1010 Hz.



#### TWN-FF Frequency Prescaler.

Input pulses divided to open collector pulse output interface. Division factor: 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2028, 4096.



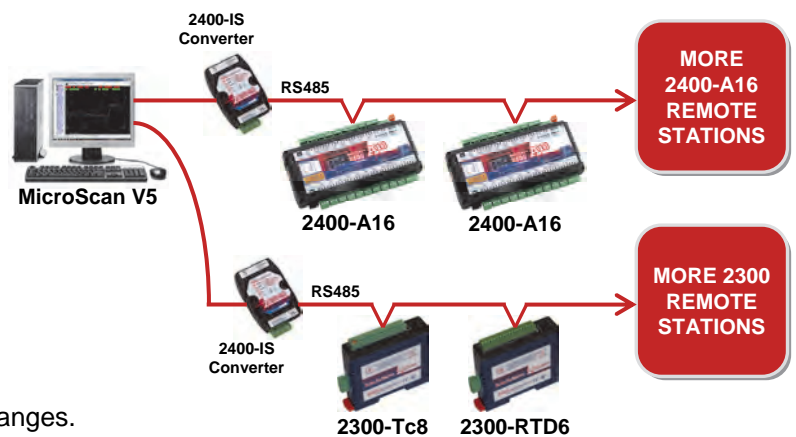
# MicroScan Real Time Monitoring

## One of the best recording packages on the market

- Connects to the Intech Micro 2400, 2300 and 2100 series I/O modules.
- Complete supervisory control and data acquisition system.
- New version 5 even easier to use and implement.
- Flexible user friendly alarm handling across the Ethernet.
- Audit tracking of all users.
- Ethernet many user capability.



- Recorder capacity increased to 1000 channels.
- Audit tracking of all configuration changes.
- Disk Store rate selectable down to 1 second.
- Batching support.
- Comprehensive backup of data and configuration changes.
- Industry leaders for speed of historical data retrieval.
- Mimic Pages expanded to 100 pages.
- Tag database expanded to 5000 tags.



**Important:** The 2300-XX stations **cannot** share a data hi-way with the 2400-XX / 2100-XX stations and/or Shimaden Controllers.

[www.intech.co.nz/microscan](http://www.intech.co.nz/microscan)

## MicroScan integration example

The MicroScan system and the PLC can access the 2400-A16 multiplexer at the same time.

