



# Intech Micro **2300 Series**

I/O REMOTE STATIONS

Stand-alone Analogue and Digital Input/Output stations  
Examples of connectivity  
Mini packs

>> [www.vespo.com](http://www.vespo.com)

# Intech Micro 2300 series I/O Remote Stations



## Stand-alone Analogue and Digital Input/Output stations — low cost Connects to MicroScan V5 software

- Low Cost I/O Remote Stations
- MODBUS RTU with MODBUS TCP option
- MicroScan V5 Compatible—Seamless Integration
- Also ideal for use when inputs/outputs are required for a PLC and Modbus comms are available
- Plug-in connectors makes replacement easy
- Programmable Ranges within input type
- 1.0kV or greater Isolation.
- 0.2% Accuracy (12 Bit).
- Compact DIN rail mount Enclosure
- LEDs indicate I/O status plus comms and Power Supply
- Comms Fail Alarm (Optional)
- Power Supply: 24Vdc

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

MODEL	DESCRIPTION	
<b>2300-A8I</b>	8 x 4~20mA inputs, single ended (all input negatives internally connected) 0~20mA inputs programmable / 250 ohms input resistance 1.5KV isolation between inputs and power supply and comms (RS485) Power Supply = 24Vdc @ 30mA typical Requires an independent and isolated power supply to power logic inputs.	4~20mA inputs Commoned
<b>2300-A8II</b>	8 x 4~20mA inputs, Isolated 1.0KV isolation between each input 0~20mA inputs programmable / 250 ohms input resistance 1.5KV isolation between inputs and power supply and comms (RS485) Power Supply = 24Vdc @ 40mA typical	4~20mA inputs Isolated
<b>2300-A8VI</b>	8 x Voltage inputs, Isolated 1.0KV isolation between each input 0~10V or 2~10V inputs programmable / 20 Kohms input resistance 1.5KV isolation between inputs and power supply and comms (RS485) Power Supply = 24Vdc @ 40mA typical	Volts inputs Isolated
<b>2300-Tc8</b>	8 x Thermocouple & mV inputs, Isolated 350V peak isolation between each input Programmable inputs type K, J, T, E, N, B, S, R Programmable mV inputs 0~50mV, -100~100mV 1.5KV isolation between inputs and power supply and comms (RS485) Power Supply = 24Vdc @ 40mA typical	Thermocouple & mV Isolated
<b>2300-RTD6</b>	6 x RTD inputs, Pt100, Pt1000, Ni120, Ni1000, 1.5KV isolation between inputs and power supply and comms (RS485) Resolution = 0.1°C / Power Supply = 24Vdc @ 55mA typical	RTD input
<b>2300-MULTI</b>	6 x combination analogue inputs, single ended 2 x RTD inputs, 2 x 4~20mA inputs, 2 x Voltage inputs; 1 x 4~20mA output, 4 x Digital inputs, 2 x Digital outputs 1.5KV isolation between inputs and power supply and comms (RS485) Power Supply = 24Vdc @ 70mA typical	Combination inputs and Outputs
<b>2300-D16</b>	16 x Digital inputs Input voltage : 12~24Vdc 1.5KV isolation between inputs and power supply and comms (RS485) Power Supply = 24Vdc @ 30mA typical	Digital inputs
<b>2300-RO4</b>	4 x Relay outputs Change over contacts Contact rating : 240Vac @ 0.5A 28Vdc @ 1A 1.0KV isolation between inputs and power supply and comms (RS485) One output can be dedicated to Comms Fail Alarm Power Supply = 24Vdc @ 100mA typical	Relay outputs

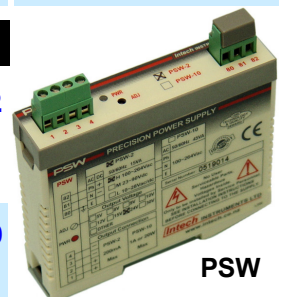
### 24V DC Power Supply Options:

**PSW-2-X** Output Voltage : 24Vdc  
Max current : 200mA continuous  
Input Power Supply : 100~264Vac/dc  
(Medium setting : 23~90Vdc)

>> [www.intech.co.nz/psw-2](http://www.intech.co.nz/psw-2)

**PSW-10-X** Output Voltage : 24Vdc  
Max Current : 1 Amp continuous  
Input Power Supply : 100~264Vac/dc

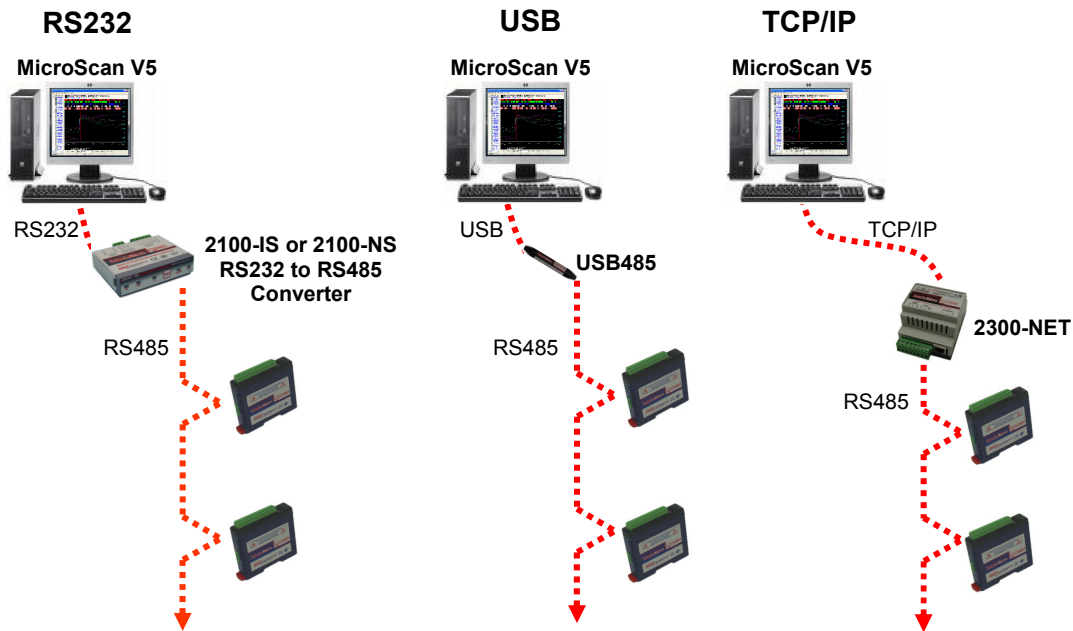
>> [www.intech.co.nz/psw-10](http://www.intech.co.nz/psw-10)



PSW

# Intech Micro 2300 series I/O Remote Stations

## Examples of Connectivity - RS485 Data Hi-Way



- The 2100-IS and 2100-NS convert RS232 from a computer to RS485 for communication to the 2300 series stations.

MODEL	DESCRIPTION
2100-IS	<b>RS232 to RS485 Isolating converter.</b> Comms baud rate: 9600 Relay output: 1 relay, change over. Rating, 1 amp, 24Vdc. Power Supply: 9V plug pack (supplied with 2100-IS). <b>Internal audible and relay output alarm for communication failure.</b>

RS232 converter isolating  
Alarm for communication failure.



2100-IS

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

MODEL	DESCRIPTION
2100-NS	<b>RS232 to RS485 converter kit. Non-isolating.</b> Comms baud rate: 9600 Power Supply: 9 volt plug pack (supplied with 2100-NS).

RS232 converter kit—Non isolating



2100-NS Kit

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

MODEL	DESCRIPTION
USB485	<b>USB to RS485 Converter. Non-isolating.</b> Powered from computer USB powered port. 3m length. Note: Only use for temporary monitoring, for industrial environments we recommend using a physical RS232 connection.

USB to RS485 Converter



>> [www.intech.co.nz/usb485](http://www.intech.co.nz/usb485)

- The 2300-NET converts TCP/IP to RS485 for communication to the 2300 series stations.

MODEL	DESCRIPTION
2300-NET	<b>Ethernet TCP/IP to RS485 Converter. Isolating.</b> Comms baud rate: 9600 Modbus TCP to Modbus RTU Compact DIN rail mount enclosure
PSW-2-X	If you require a 24Vdc power supply for the 2300-NET

TCP/IP to RS485 converter isolating

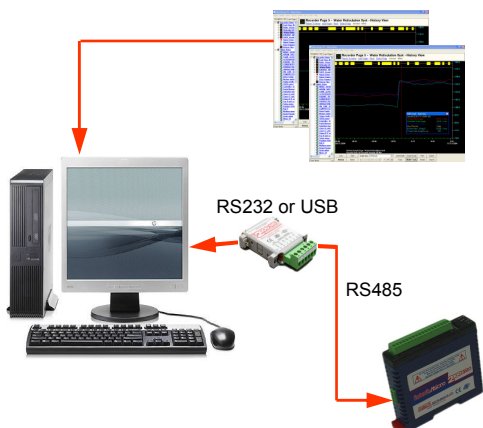


2300-NET

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

# Minipacks – Complete Chart Recorder replacement packages

## MINI PACK 8



### UP TO 8 CHANNELS OF RECORDING

Remote stations available for the following;  
milli-amps, milli-volts, Voltage, Thermocouple, RTD,  
Combination.



>> Refer pages 2/3

#### SOFTWARE

1x **MICROSCAN V5 RECORDER LITE 8**

Supplied with USB Dongle

#### And HARDWARE

1x **COMMS CONVERTER RS232 to RS485**

or USB to RS485 (for temporary monitoring only)

[specify converter type when ordering, RS232 is default]

1x **INTECH MICRO 2300 Remote Station**

c/w PSW-2 Power Supply 24Vdc

Specify input type when ordering: Voltage/Current/Thermocouple/RTD/Multi

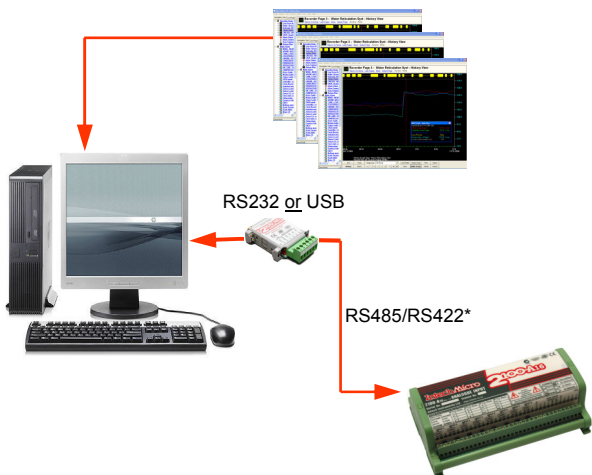
**Option 1** - If using 2300-RTD6 (6x RTD inputs)

**Option 2** - If using 2300-A8I (8x 4~20mA inputs Non-isolated)

**Option 3** - Using any other 2300 I/O remote station

**Upgrade** - Comms fail alarm and/or Alarm outputs (add 2300-RO4 station)

## MINI PACK 16



### UP TO 16 CHANNELS OF RECORDING

Each input channel can be individually programmed to any of the following:  
Pt100 or# Pt1000, Thermocouple, milli-amps, milli-volts, Voltage.

#### SOFTWARE

1x **MICROSCAN V5 RECORDER LITE 16**

Supplied with USB Dongle

#### And HARDWARE

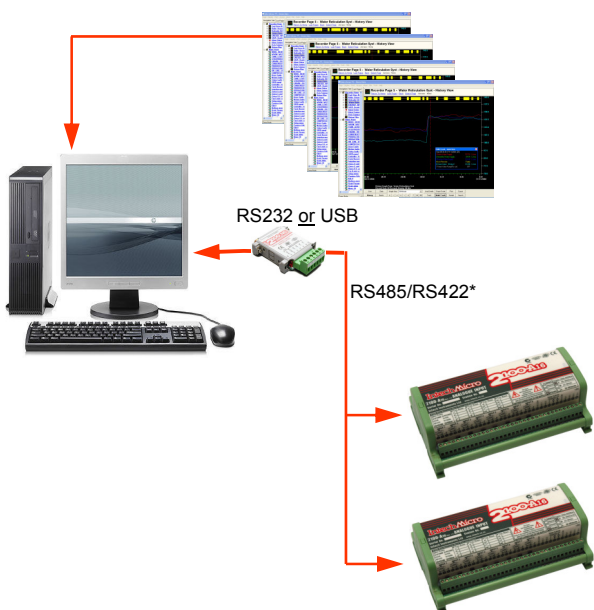
1x **COMMS CONVERTER RS232 to RS485/RS422**

or USB to RS485 (for temporary monitoring only)

[specify converter type when ordering, RS232 is default]

1x **INTECH MICRO 2100-A16-X**

## MINI PACK 32



### UP TO 32 CHANNELS OF RECORDING

Each input channel can be individually programmed to any of the following:  
Pt100, Pt1000, Thermocouple, milli-amps, milli-volts, Voltage.

#### SOFTWARE

1x **MICROSCAN V5 RECORDER LITE 32**

Supplied with USB Dongle

#### And HARDWARE

1x **COMMS CONVERTER RS232 to RS485/RS422**

or USB to RS485 (for temporary monitoring only)

[specify converter type when ordering, RS232 is default]

2x **INTECH MICRO 2100-A16-X**

\* 2100-A16 RS422 available with 2100-NS/IS RS232 converter only.

# 2100-A16 RTD inputs must be either Pt100 or Pt1000 not a mixture.

Phone: **1-800-49-VESPO** or **1-239-348-8086**  
Fax: **1-800-36-VESPO** or **1-239-348-9910**



[controls@vespo.com](mailto:controls@vespo.com)

>> [www.vespo.com](http://www.vespo.com)