NEW Humidity Indicator / Transmitter

- **Humidity and Temperature Indicator / Transmitter.**
- **This unit is used with a wet and dry sensor system (e.g. WDT-DW).**
- **The IN-HWD uses a microprocessor with formulae and look-up tables to obtain better than 1% accuracy for relative humidity over the range of 0~100°C.**
- Note: The IN-HWD (rev2) replaces both the 2100-A4-HWD and the older IN-HWD.

www.intech.co.nz/in-hwd

MODEL	DESCRIPTION	PRICE
IN-HWD	**Input**: 1x wet bulb and 1x dry bulb. Standard: RTD Pt100, 3 wire DIN (0~100ºC). **Output**: 1x humidity and 1x temperature. 2 channels: 4~20mA. Resolution: 0.025% Full scale. 12 bit. Indicator: Dual LED screens for humidity and temperature. Standard Power Supply: 85~264Vac / 95~370Vdc.	$578.00
OPTIONS		
R4	**4x 5A Relay Outputs**	$105.00
WS232	**Serial Port RS232:** Includes Modbus RTU	$116.00
WS485	**Serial Port RS485:** Includes Modbus RTU	$116.00
LV	Low Voltage Power Supply: 15~48Vac / 10~72Vdc.	$64.00

Humidity wet and dry tank

www.intech.co.nz/wdt-dw

- **Humidity tank with wet and dry sensors.**
- **For the measurement of relative humidity, RH%.**
- **Commonly used with the IN-HWD Humidity Indicator/Transmitter.**
- **Constructed of 316 stainless steel.**

MODEL	DESCRIPTION	PRICE
WDT-DW	Sensors: RTD, Pt100, Band 5. 4.8ø x 150. Others by request. Fill port: 1/8"BSP nipple. Overflow port: 1/8"BSP nipple. Mount: Wall or duct mount. Cable: 4 metres.	$560.00
WDT-WICK	Spare wick for wet bulb sensor.	$5.00

Humidity transmitters

LPN-H-D

LPN-H-Flange

LPN-H-W

www.intech.co.nz/lpn-h

- **Dual output, 4~20mA loop powered.**
- **Outputs, % RH and Temp.**
- **NEW Sensirion SHT25 Digital humidity sensor.**
- **Pt100 RTD sensor.**

MODEL	DESCRIPTION	PRICE
LPN-H-D (Rev 1)	**Humidity and temperature transmitter, 220mm Duct mount.** Dual output, each loop powered. temperature: 4~20mA = 0~100°C. humidity: 4~20mA = 0~100% RH.	$432.00
LPN-H-Flange	Optional 100mm flange for LPN-H-D.	$106.00
LPN-H-W (Rev 1)	**Humidity and temperature transmitter, Wall mount.** Dual output, each loop powered. temperature: 4~20mA = 0~100°C. humidity: 4~20mA = 0~100% RH.	$398.00
Calibration canisters:		
LPN-H-75	Calibration canister with 75% RH salt solution.	$160.00
LPN-H-43	Calibration canister with 43% RH salt solution.	$160.00
LPN-H-33	Calibration canister with 33% RH salt solution.	$160.00

Calibration system for LPN-H series Humidity sensors:
The LPN-H-Ref system is designed to allow *in situ* calibration of LPN-H-W and LPN-H-D humidity Transmitters.
The LPN-H-Ref system consists of corrosion resistant stainless steel canisters containing humidity regulating salt solutions that replace the black protective filter on the sensor.

Important Note: It is essential that the humidity sensor is mounted vertically with the filter at the bottom to prevent spillage.

Multifunction Indicator

The IN-P is a **Multifunctional Indicator** which not only interfaces smoothly with a wide range of PLC and monitoring systems, but also as a stand alone unit for single and multi input Indication - Alarm - Control.

Features:

- Simple setup and calibration.
- On Screen Step by Step Instructions.
- 5 Buttons for easy Operator Interface.
- Option to add up to 6 Relay Outputs.
- Analogue Output Retransmission option.
- Serial RS485/RS232 port option with Modbus RTU.
  Ethernet port option with Modbus TCP.
- Wide Range of Power Supply options from 10V to 265V.
- Multiple functions available for customising to your application.

IN-P

www.intech.co.nz/in-p

MODEL	DESCRIPTION	PRICE
IN-P	**Multifunction Indicator.** 6 Digit LED Display. 6 Set Points. Standard Power Supply: 85~265Vac / 95~370Vdc.	
PRC1	**1x 4~20mA / 0~10V input** + 24Vdc excitation	$420.00
PRC4	**4x 4~20mA input** + 24Vdc excitation.	$668.00
TC1	**1x Thermocouple input:** Types B, J, K, N, R, S, T.	$420.00
TC4	**4x Thermocouple input:** Types B, J, K, N, R, S, T.	$668.00
RTD1	**1x RTD Pt100 input.**	$420.00
RTD4	**4x RTD Pt100 input.**	$668.00
OPTIONS		
R2	**2x 5A Relay Outputs.**	$78.00
R4	**4x 5A Relay Outputs.**	$105.00
R6	**6x 5A Relay Outputs.**	$155.00
A	**Analogue Output Retransmission:** 4~20mA and 0~10V.	$95.00
WS232	**Serial Port RS232:** Includes Modbus RTU.	$116.00
WS485	**Serial Port RS485:** Includes Modbus RTU.	$116.00
WEM/WEA	**Ethernet Port:** Ascii or Modbus TCP.	$281.00
LV	Low Voltage Power Supply: 15~48Vac / 10~72Vdc.	$64.00
FUNCTIONS	**(Available on request)**	
A	Auto or manual scanner with alarms.	POA
B	Maths functions, (i) √, (ii) Difference, (iii) Average, (iv) Hi / Lo Select.	POA
C*	Hold, Tare, Reset (External switches connect to rear terminals).	POA
D*	Flow Rate + Totalising.	POA
E*	Energy display & totaliser (flow x ΔT).	POA
F	Step controller.	POA
G*	Auto / Manual Station.	POA
H	Retransmission.	POA
I	Other Functions – please specify.	POA
J	Data Logging.	POA

***** *Available on channel one only.*

All prices are in NZ$, are GST exclusive and are subject to change without notice.

Common Features:

- Simple setup and calibration.
- On Screen Step by Step Instructions.
- 5 Buttons for easy Operator Interface.
- Option to add up to 4 Relay Outputs.
- Analogue Output Retransmission option.
- Serial RS485/RS232 port option with Modbus RTU (excluding IN-R).
- Wide Range of Power Supply options from 10V to 265V.

MODEL	DESCRIPTION	PRICE
IN-R	**Large Display Tachometer Indicator.** 4 Digit Large LED Display. Microprocessor Based for Wide Range Calibration. Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur. 4 Set Points with delay. 4 LED's for Alarm indication. Standard Power Supply: 85~265Vac / 95~370Vdc.	$336.00
IN-RT	**Flow Rate Indicator with Totaliser.** 6 Digit LED Display. Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur. 4 Set Points with delay. Standard Power Supply: 85~265Vac / 95~370Vdc.	$425.00
IN-RTB	**Flow Rate and Batching Controller.** Dual 6 Digit LED Displays. View Flow Rate & total simultaneously. Inputs: 0~30V, magnetic pickup, NPN, PNP, TTL, Namur. 5 Set Points annunciator LED's. Standard Power Supply: 85~265Vac / 95~370Vdc.	$530.00
OPTIONS		
R2	**2x 5A Relay Outputs.**	$78.00
R4	**4x 5A Relay Outputs.**	$105.00
A	**Analogue Output Retransmission:** 4~20mA and 0~10V.	$95.00
WS232	**Serial Port RS232:** Includes Modbus RTU. Note: Not available for the **IN-R.**	$116.00
WS485	**Serial Port RS485:** Includes Modbus RTU. Note: Not available for the **IN-R.**	$116.00
LV	Low Voltage Power Supply: 15~48Vac / 10~72Vdc.	$64.00

IN-R

www.intech.co.nz/in-r

IN-RT

www.intech.co.nz/in-rt

IN-RTB

www.intech.co.nz/in-rtb

LPI-LCD-5
Panel Mount Indicator. Loop powered.

MODEL	DESCRIPTION	PRICE
LPI-LCD-5	**Panel mount. Loop powered.** Input: 4~20mA, 2 wire. Display: 5-digit LCD of 12.5mm height. Volts Drop: 3.9V @ 20mA. Scaling: Programmable between -19999 to 30000. Max Resolution: 50,000 counts. Accuracy: +/-0.02% of reading plus 2 digits. Decimal Point: Programmable to six positions. Temperature: -10°C to +50°C. Protection: IP65. Housing: Plastic. 96 x 48mm.	$348.00
Cover	Option: Splash proof lockable security cover: IP65.	$72.00

www.intech.co.nz/lpi-lcd

All prices are in NZ$, are GST exclusive and are subject to change without notice.

- **Each input is user selectable in MicroScan software to any of the following:**
  Thermocouple, RTD (Pt100/Pt1000), mA, mV, volts.
- **16 analogue differential inputs, (RTD single ended).**
- **2 relay outputs, for control or alarm functions.**
- **2 analogue outputs.**
- **4 isolated digital inputs.**
- **Comms – RS485 or RS422 selectable, RS232 optional. Modbus.RTU Standard.**
- **Channel selection:**
  'binary' or 'clock/reset' (selectable).
- **0.1% accuracy.**
- **DIN rail mount.**

www.intech.co.nz/2100-a16

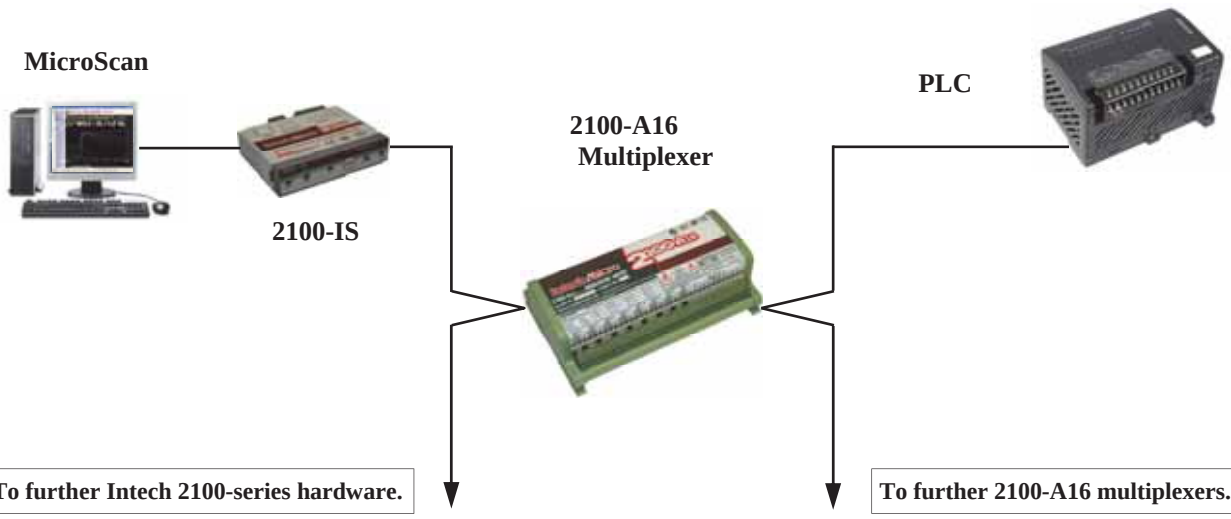
MODEL	DESCRIPTION	PRICE
2100-A16	**Intelligent analogue input multiplexer. 16 channels.** Analogue input ranges: scaled within the following span limits: mV. 0~25mV to ±500mV. volts. 0~1V to ±15V dc. mA. 0~1mA to ±100mA. (4~20mA default). RTD. 0~25°C to -200~850°C. Pt100/Pt1000 selectable. RTD inputs must be either Pt100 or Pt1000 not a mixture. Thermocouple. K, J, N, T, R, S, B, E, with CJC. Range must be within -200~0~1800°C. Resolution: 16 bit Differential: 18 volts maximum. Power supply: 85~264Vac/dc or 23~90Vdc, selectable. 10~28Vac/dc, optional. **PLC control** Channel select: Clock/reset or binary selectable. Analogue output: 1 only, 4~20mA, 0~20mA, selectable. 0~10Vdc, 2~10Vdc. Factory option. **Computer control** Analogue output: 1 only, 4~20mA, 0~20mA, selectable. 0~10Vdc, 2~10Vdc. Factory option. Relay outputs: 2 only, N/O contacts. Rating, 1 amp 30Vac/dc. Comms: Isolated RS485 (2 wire), RS422 (4 wire), selectable. RS232, optional. Modbus.RTU standard. Baud rate: 9600, 4800, 2400, selectable.	$1348.00
OPTIONS		
2100-A16-RS232	**RS232** option fitted to 2100-A16. (Supplied with 5 metres cable).	N/C
2100-A16-L	**Power supply** of 10~28Vac/dc fitted.	$75.00

PLC

2100-A16 Intelligent Multiplexer

Additional multiplexers.

The MicroScan system and the PLC can access the 2100-A16 multiplexer at the same time.



All prices are in NZ$, are GST exclusive and are subject to change without notice.

IntechMicro 2300 series I/O Remote Stations & PLC

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

www.intech.co.nz/2300

- **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.**
- **1.0 kV or greater Isolation.**
- **0.2% Accuracy (12 Bit).**
- **Compact DIN rail mount Enclosure.**
- **LEDs indicate I/O status plus comms and Power Supply.**
- **Comms Fail Alarm (Optional).**
- **Power Supply: 24Vdc.**

MODEL	DESCRIPTION	PRICE	
2300-A8I	**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.	$395.00	**4~20mA inputs** **Commoned**
2300-A8II	**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.	$575.00	**4~20mA inputs** **Isolated**
2300-A8VI	**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.	$575.00	**Volts inputs** **Isolated**
2300-Tc8	**8 x Thermocouple & mV inputs**, Isolated 350V peak isolation between each input. Programmable inputs type K, J, T, E, N, B, S, R, with CJC. Programmable mV inputs 0~50mV, -100~100mV. 1.5KV isolation between inputs and power supply and comms (RS485). Power Supply = 24Vdc @ 40mA typical.	$575.00	**Thermocouple & mV** **Isolated**
2300-RTD6	**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.	$455.00	**RTD input**
2300-MULTI	**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.	$575.00	**Combination inputs and Outputs**
2300-D16	**16 x Digital inputs.** Input voltage: 12~24Vdc. 1.5KV isolation between inputs and power supply and comms (RS485). Power Supply = 24Vdc @ 30mA typical.	$300.00	**Digital inputs**
2300-RO4	**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.	$285.00	**Relay outputs**

24Vdc Power Supply Options:

PSW-2-F	Output Voltage: Max current: Input Power Supply:	24Vdc. 200mA continuous. 85~265Vac/dc.	www.intech.co.nz/psw-2-f	$98.00
PSW-10-X	Output Voltage: Max Current: Input Power Supply:	24Vdc. 1 Amp continuous. 100~264Vac.	www.intech.co.nz/psw-10	$188.00

PSW

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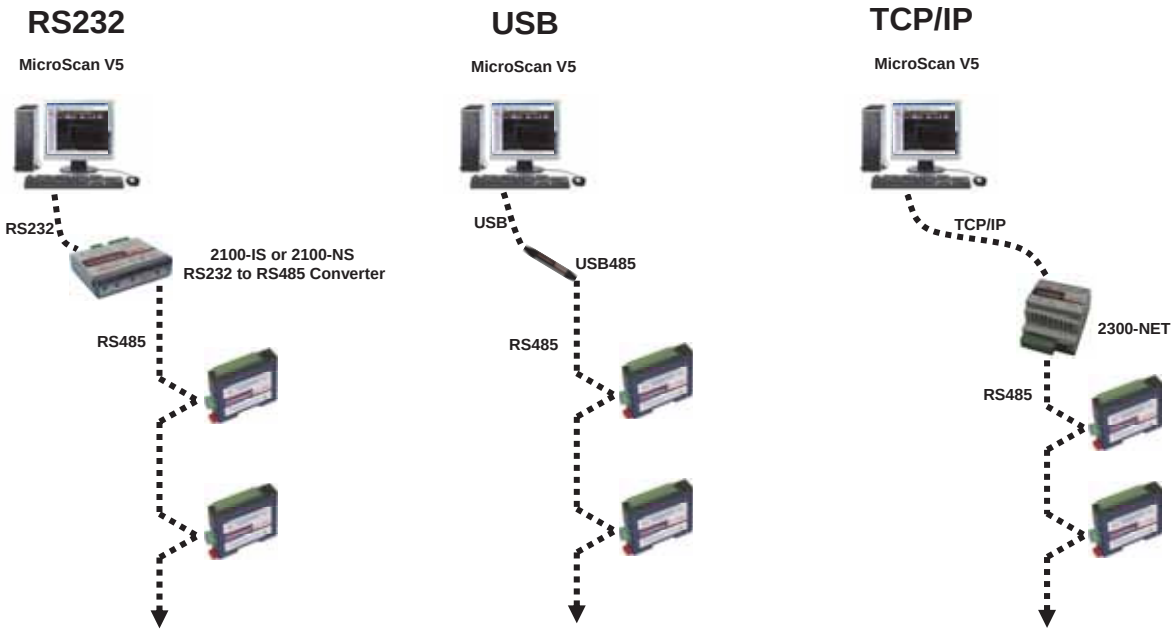
Examples of connectivity - RS485 data Hi-Way



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

MODEL	DESCRIPTION	PRICE
2100-IS	**RS232 to RS485 Isolating converter.** Comms baud rate: 9600. Relay output: 1 relay, change over. Rating, 1 amp, 24Vdc. Power supply: 9V plug pack (supplied with 2100-IS). **Internal audible and relay output alarm for communication failure.**	$486.00

RS232 converter isolating
Alarm for communication failure.

www.intech.co.nz/2100-is

2100-IS

MODEL	DESCRIPTION	PRICE
2100-NS	**RS232 to RS485 converter kit. Non-isolating.** Comms baud rate: 9600. Power supply: 9 volt plug pack (supplied with 2100-NS).	$286.00

RS232 converter kit non isolating

www.intech.co.nz/2100-ns

2100-NS Kit.

MODEL	DESCRIPTION	PRICE
USB485	**USB to RS485 converter. Non-isolating.** Powered from computer USB powered port. 3m length. **Note:** Only use for temporary monitoring, for industrial environments we recommend using a physical RS232 connection.	$286.00

USB to RS485 converter

www.intech.co.nz/usb485

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

MODEL	DESCRIPTION	PRICE
2300-NET	**Ethernet TCP/IP to RS485 Converter. Isolating.** Comms baud rate: 9600. Power supply: 24Vdc. Modbus.TCP to Modbus.RTU Protocol. Compact DIN rail mount Enclosure.	$430.00
PSW-2-F	If you require a 24Vdc Power supply for the 2300-NET.	$98.00

TCP/IP to RS485 converter isolating

2300-NET

www.intech.co.nz/2300-net

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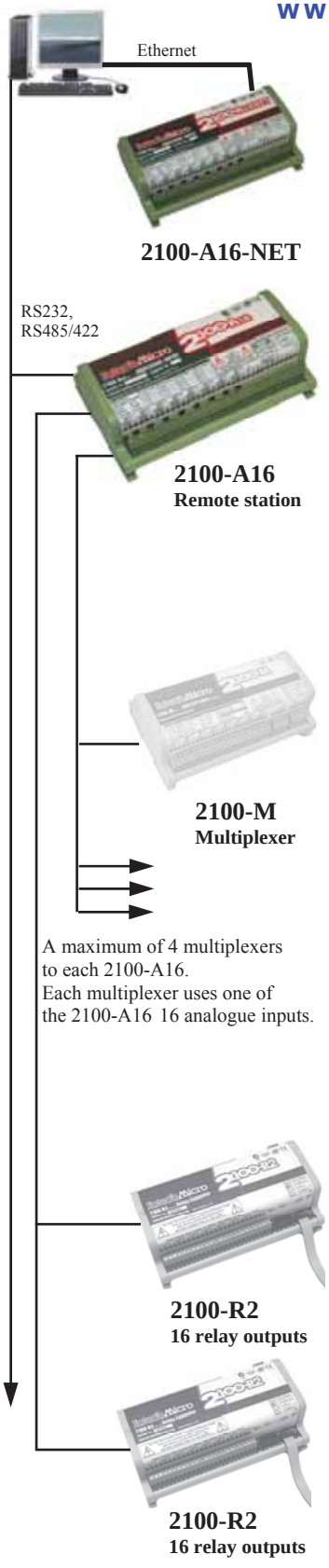
Analogue input station

- **Each input is user selectable in MicroScan software to any of the following:**
  Thermocouple, RTD, mA, mV, volts.
- **16 analogue differential inputs, (RTD single ended).**
- **4 digital inputs, for counting or on/off status.**
- **2 relay outputs, for control or alarm functions.**
- **2 analogue outputs.**
- **Comms – RS485 or RS422 selectable, Modbus.RTU Standard, RS232 / Ethernet TCP/IP optional.**
- **Input expansion, up to four 16 input 2100-M units.**
- **Output expansion, up to two 16 relay 2100-R2 units.**
- **Radio modem compatible.**
- **16 resident 'computer free' on board controllers.**
- **Use with the two on board relays or the 2100-R2 unit.**

www.intech.co.nz/2100-a16



MODEL	DESCRIPTION	PRICE
2100-A16	**Analogue input remote station. 16 channels.** Analogue input ranges: scaled within the following span limits: mV. 0~25mV to ±500mV. volts. 0~1Vdc to ±15Vdc. mA. 0~1mA to ±100mA (4~20mA default). RTD. 0~25°C to -200~850°C. Pt100/Pt1000 selectable. RTD inputs must be either Pt100 or Pt1000 not a mixture. Thermocouple. K, J, N, T, R, S, B, E, with CJC. Range must be within -200~0~1800°C. Resolution: 16 bit. Differential: 18 volts maximum. Digital inputs: 4 opto isolated, 5~30Vdc, 50Hz max. max count, 16383 and rolls over. Analogue outputs: 2 channels. (Not available when Multiplexers are connected). 4~20mA, 0~20mA. Selectable. 0~10Vdc, 2~10Vdc. Factory option. Relay outputs: 2 relays, n/o contacts, Rating, 1 amp 30Vac/dc. Power supply: 85~264Vac/dc or 23~90Vdc, selectable. 10~28Vac/dc, optional. (Refer below). Comms: Isolated RS485 (2 wire), RS422 (4 wire), select. Modbus.RTU standard. RS232 / Ethernet TCP/IP optional. (Refer below). Baud rate: 9600, 4800, 2400, selectable. Control: Set points and hysterisis values for the 16 resident on board controllers are downloaded from the MicroScan mimic package software and held in permanent memory.	$1348.00
OPTIONS		
2100-A16-NET	Analogue input remote station fitted with Ethernet TCP/IP connection. MicroScan.TCP & Modbus.TCP protocols. **www.intech.co.nz/2100-a16-net**	$360.00
2100-A16-RS232	**RS232** option fitted to 2100-A16. (Supplied with 5 metres cable).	N/C
2100-A16-L	**Power supply** of 10~28Vac/dc fitted.	$75.00
Expansion notes		
Input	**Input expansion:** This is a standard feature. Supports up to four 2100-M multiplexers. ***The two analogue outputs are not available with this option.***	
Output	**Output expansion:** Supports up to two 2100-R2 relay output modules. This unit allows the station to 'stand alone' as a 16 channel controller for a combination of (on/off or heat/cool) control and alarm functions. The heat/cool option utilises 2 relays per channel. The 2100-A16 (rev 1.3) can now support 16 heat/cool controllers. For this, 32 relay O/P's are required.	

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NEW Wireless MicroScan Connections - ZigBee® Z-2400 Series

Wireless options:

Which one suits your application: ZigBee® or Radio Modems?

ZigBee® is a new technology designed for short range mesh networking that allows easy expansion. Ideal for sites where wireless is preferred over cable connections. Applications: Hospitals, Labs, Blood banks and Industry.

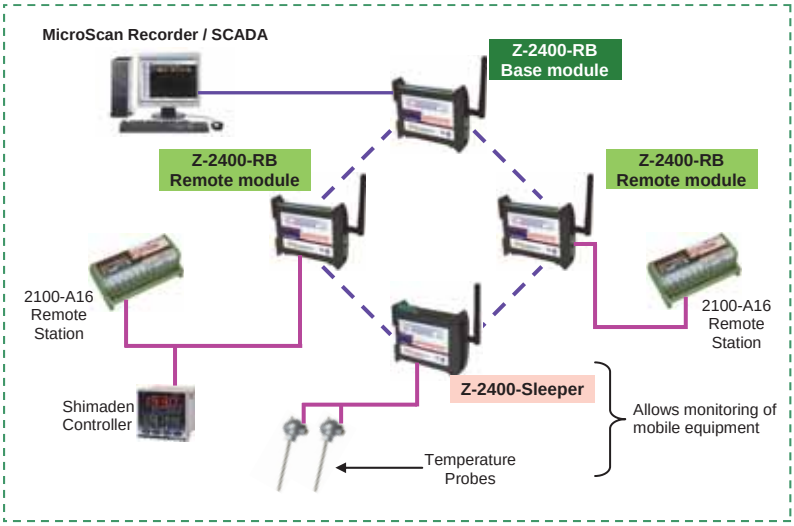
Radio Modems are the traditional long range and high speed communications. Applications: Industry, Utilities, environmental, fresh and waste water.

MODEL	BENEFITS					COMMUNICATIONS	
	EASY EXPANSION	LOW COST	REDUNDANCY	LONG RANGE	HIGH SPEED	MICROSCAN	MODBUS.RTU
ZigBee® Z-2400 Series	✓	✓	✓			✓	
Tel-Link Radio Modems				✓	✓	✓	✓

New Wireless ZigBee® Technology empowers MicroScan SCADA

NEW!

Example showing MicroScan Software and the 2100-A16 Remote Stations plus Sleeper for mobile monitoring:



www.intech.co.nz/zigbee

Z-2400 Series

Common Specifications:

Wireless standard:	IEEE 802.15.4-2006.	Wireless Power:	1mW.
Wireless range:	Up to 100m max line of sight.	Power supply:	9~36Vdc.
Wireless Frequency:	2405~2485MHz.	Power Consumption:	5 VA.
Frequency Hopping:	16 Channels.		

MODEL	DESCRIPTION		PRICE
Z-2400-RB	Communications: Duty: Embedded protocol support:	RS232, RS422, RS485. Configurable as Base or Remote. MicroScan default ASCII plus Modbus.RTU.	$398.00
Z-2400-Sleeper	Universal channel data inputs: Inputs: Selectable update rate: Embedded protocol support: Battery life: Option to permanently power with plug pack power supply.	2. RTD/Tc/mV/V/mA/Psuedo Digital. 1,2,5,15,30,60 minutes. MicroScan default ASCII plus Modbus RTU. Approx 2 years life when wake up interval set to 2 minutes. Poor signal strength reduces battery life.	$618.00
XU-USB	USB Programming Key for programming **Z-2400-Sleeper**. (Same as used for programming XU Series transmitters).		$80.00
Z-2400-TCP	Communications: Duty: Embedded protocol support:	Ethernet TCP. Base only. MicroScan.TCP plus Modbus.TCP.	$748.00

2.4GHz high gain antennas available on page 35 >>

Note: ZigBee® is a Registered trademark of the ZigBee Alliance, Inc.

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SR90 Series - Digital controllers.

- Autotuning controller with PID.
- Inputs: Thermocouple, RTD, Current, Voltage.
- Outputs: Current, SSR drive, Voltage, Relay.
- Optional power supply of 24Vac or 24Vdc.
- Retransmission of process value or set value.
- Set value bias by digital input.
- Alarms, Event output, Heater break alarm.
- Manual control, SV limit, PV filter, Output limit.
- Comms: RS232C, RS485 Modbus/Shimaden.
- Front panel IP66.
- Heating cooling outputs.

SR91 SR92 SR93 SR94

www.intech.co.nz/sr90

MODEL	SIZE	BASE PRICE Includes Alarms.	OPTIONS	ADD PRICE
SR91	48 x 48	$315.00	Control output 2	$100.00
SR92	72 x 72	$342.00	Set value bias / DI	$63.00
SR93	96 x 96	$355.00	Retransmission	$100.00
SR94	48 x 96	$335.00	Comms RS232, RS485 Modbus/Shimaden	$160.00
		24Vac/dc power supply		$80.00

MR13 - 3 Input/Output Controller.

- 3-channel controller, 3-channel input#, 3-channel setting and simultaneous 3-channel display are possible.
- Accuracy: ±(0.3% FS + 1 digit).
- Programmable 1 pattern with 9-step function.
- PID Auto tune.
- Comms: RS232C, RS485.

Input type must be the same for 3 channels.

www.intech.co.nz/mr13

MODEL	SIZE	BASE PRICE	OPTIONS	ADD PRICE
MR13	96 X 96	$960.00	Program Function	$160.00
			Events	$120.00
			Remote Input/ Digital Input	$60.00
			Retransmission	$120.00
			Comms RS232, RS485	$200.00

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SD16A - Digital Indicator.

- **Microprocessor based. 4 digit display.**
- **Inputs: Thermocouple, RTD, Current, Voltage.**
- **Display accuracy of ±(0.3% FS + 1 digit).**
- **Analogue output.**
- **Two alarm relay outputs SPST.**
- **Comms: RS232C, RS485 Modbus/Shimaden.**
- **IP66 front panel.**
- **LED display with 20mm high digits.**
- **Optional power supply of 24Vac/dc.**

MODEL	SIZE	BASE PRICE	OPTIONS	ADD PRICE
SD16A	96 x 48	$279.00	Alarms	$60.00
			Retransmission (with Alarms) OR Sensor Supply 24Vdc 25mA	$160.00
			Retransmission (without Alarms) OR Sensor Supply 24Vdc 25mA	$100.00
			24Vac/dc power supply	$50.00
			Comms RS232, RS485 Modbus/Shimaden	$120.00

Notes:
Specify 4~20mA when ordering.
Can have either Retransmission OR Sensor supply (not both).

www.intech.co.nz/sd16a

NEW SD24 - High Accuracy Digital Indicator.

- **Microprocessor based. 5 digit display.**
- **Inputs: Thermocouple, RTD, Current, Voltage.**
- **High display accuracy of ±(0.1% FS + 1 digit).**
- **3 Display modes: Peak hold, Bottom hold, Display hold.**
- **External control input (2 points) standard.**
- **2 or 4 Relays for events.**
- **Comms: RS232C, RS485 Modbus/Shimaden.**
- **IP66 front panel.**
- **LED display with 14.3mm high digits.**
- **Optional power supply of 24Vac/dc.**

MODEL	SIZE	BASE PRICE	OPTIONS	ADD PRICE
SD24	96 x 48	$430.00	Alarms x2	$60.00
			Alarms x4	$90.00
			Retransmission	$100.00
			24Vac/dc power supply	$50.00
			Comms RS232, RS485 Modbus/Shimaden	$120.00

Note:
Can have either Retransmission OR Comms (not both).

www.intech.co.nz/sd24

KR16 - Selector switch.

- **Six way selector.**
- **Two pole push button switches.**
- **Panel mount.**
- **Ideal for use with the SD16A or SD24 digital indicators.**

MODEL	SIZE	PRICE
KR16	96 x 48	$400.00

www.intech.co.nz/kr16

SR23 - High Accuracy Digital Controller

www.intech.co.nz/sr23

2 Channel Control (Option).
(Independent Dual Loop Control).
High resolution: 1/1000°C *at Pt100 : 0.001 to 30.000°C.
High accuracy: 0.1% FS.
Universal input.
Various display: LED & 128 x 32 DOT LCD Screen.
Easy operation and maintenance:
Infrared Communication.
Parameter setting software.
Versatile communication function:
Modbus communication protocol.
Shimaden protocol.
Versatile external control:
DI: Digital input 10 points max.
DO: Digital output 13 points max.
Proven control stability & reliability:
Shimaden Expert PID.

MODEL	SIZE	BASE PRICE	OPTIONS	ADD PRICE
SR23	96 X 96	$1050.00	Control output No 2	$100.00
			Isolated remote set point	$390.00
			Retransmission 1	$80.00
			Retransmission 2	$160.00
			Comms RS232, RS485 Modbus/Shimaden	$80.00
			Ext control DI 10 points/DO 9 points	$160.00
			Ext control DI 13 points/DO 9 points	$200.00

FP23 - High Accuracy Programmable Controller

www.intech.co.nz/fp23

2 Channel Control (Option).
(Independent Dual Loop Control).
High resolution: 1/1000°C *at Pt100 : 0.001 to 30.000°C.
High accuracy: 0.1% FS.
Max. 400 flexible step program.
Max. up to 20 patterns (Total steps not to exceed 400).
Universal input.
Various display: LED & 128 x 32 DOT LCD Screen.
Easy operation and maintenance:
Infrared Communication.
Parameter setting software.
Versatile communication function:
Modbus communication protocol.
Shimaden protocol.
Versatile external control:
DI: Digital input 10 points max.
DO: Digital output 13 points max.
Proven control stability & reliability:
Shimaden Expert PID.

MODEL	SIZE	BASE PRICE	OPTIONS	ADD PRICE
FP23	96 X 96	$1440.00	2nd output	$100.00
			Heater break 30/50 amps	POA
			Retransmission 1	$80.00
			Retransmission 2	$80.00
			Comms RS232, RS485 Modbus/Shimaden	$80.00
			Ext control DI 10 points/DO 9 points	$160.00
			Ext control DI 13 points/DO 9 points	$200.00

All prices are in NZ$, are GST exclusive and are subject to change without notice.

M Series

DC current simulating meters.

MODEL	DESCRIPTION	PRICE
MCP-2	**DC current simulating meter.** *Displays and generates 0~20mA output by adjusting the on-board potentiometer located behind the front hinged cover.* *May also switch to monitor 0~20mA input.* Digits: 3¾ digit LED. Power supply: 110~220Vac. Sensor supply: 24Vdc. Range: 0 to 3999 counts. Output: 0/4~20mA. 15V max.	$330.00
MCC-2	**DC current simulating meter.** *Displays and generates 0~20mA output by on-board push-buttons located behind the front hinged cover.* *May also be operated by remote push buttons.* Digits: 3¾ digit LED. Power supply: 110~220Vac. Range: 0 to 3999 counts. Output: 0/4~20mA. 15V max.	$415.00

Power quality meter.

EPM 7100	**Power quality meter.** ♦ For factory and building automation. ♦ Modbus RTU protocol. ♦ True RMS conversion. ♦ Field programmable PT / CT ratio. ♦ Accuracy up to 0.2%. ♦ Memory for all setup and energy data. ♦ Comprehensive self test diagnostics. ♦ Wide power supply range 80~260Vac/dc. ♦ 2KV RMS input / power isolation.	$440.00
OPTION		Add price
	DC power supply. 12V, 24V, 48V or 125Vdc.	$70.00

The EPM 7100 power meter is conceptualised as an intelligent and revolution to the traditional single function power meters. The EPM 7100 is a new compact (96 * 48mm), electronically advanced and programmable rotating display metering device. It is the answer to the future generation of electrical metering needs and methodology.
The EPM 7100 is able to replace many different units of conventional analogue or digital instruments. The parameters such as **Amp, Volt, KVA, KW, PF, KWH, KVarH, Freq, etc.** can be displayed rotating automatically: or changed manually by keypad on meter head. This saves on wiring usage and reduces the cost on metering needs.

PS Series

Analogue to frequency transmitter.

DC to frequency transmitter

MODEL	DESCRIPTION	PRICE
PSG	**Programmable DC to Frequency transmitter.** Plug-in module. DIN rail mount. Power supply: 110~220Vac. **Input:** Many ranges, programmable by dip switches. ~volts, From 0~20mV to 0~200Vdc. ~amps, From 0~200µA to 0~50mAdc. **Output:** Many ranges, programmable by dip switches. From 0~0.1Hz to 0~10kHz. Open collector, 5~30Vdc. 50mA.	$365.00
OPTION		Add price
	DC power supply. 12V, 24V or 48Vdc.	$70.00