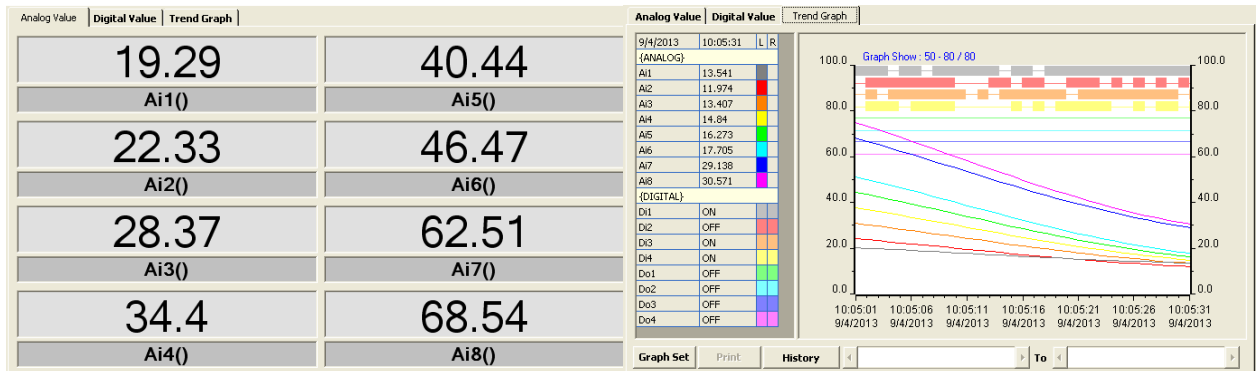


PC Based Recorder

AI210

8 Channels Expandable to 24 Channels



Real Time Display

Real Time Trend Graph

PC Based Recorder AI210 is the device that turns your regular PC to Recorder. PC will read Thermocouple, Pressure, Flow, Voltage, Current then data will show:

1. Real Time Display
 - ❖ Monitoring Real Time value on Computer
2. Real Time Trend Graph
 - ❖ Monitoring Real Time value and show them as Trend Graph
3. Record File
 - ❖ Continues record data file into PC Hard disk with stamping date and time
 - ❖ Data can be show as a table or Graph, software come with printing function
 - ❖ Convert File: Software has convert function for data can be use with others program such as Microsoft Word, Excel

Specifications

Serial Interface

Serial Standards:

RS232 Connector RJ12 6 Pin Connector

RS485 (Isolated) 2 Pin Terminal Block

Loading: RS485 Max 32 Unit

Distance:

RS232 Length 15 m.

RS485 Length 1 Km.

Protocol: MODBUS (ASCII, RTU),

Wisco ASCII

Support Software: Citect, Wonderware,

Lab View, Fix, Genesis, etc.

Serial Parameter

Baud Rate: 4800, 9600, 19200, 57600

Data Bits: 8

Stop Bits: 1

Parity: None

Analog Input

Number of Channel: 8 Channels up to 24 Channels (EX24 Module)

Input Type: Programmable Input

Input Range:

Thermocouple (R, S, K, E, J, T, B)

RTD (Cu10, PT100, PT1000)

Resistance (0 to 600 Ω , 0 to 1.2 K Ω , 0 to 4 K Ω)

Voltage mVDC (0 to 80, 0 to 150 mVDC)

Voltage (0 to 1, 0 to 5, 0 to 15, 0 to 30 VDC)

Current (4 to 20, 0 to 20, 0 to 40 mA)

ADC Resolution: 16 Bits

Isolation: Relay Isolated

Ordering Information: Specify Power Supply

Example AI210/85-230VAC

Package Checklist

1. AI210
2. RS-232 Cable
3. Resistor 250 Ω

Digital Input

Number of Channel: 4 Channels

Sensor Type: wet Contact (Opto Isolated)

wet Contact (DI to GND):

ON: 12 to 24 VDC

OFF: 0 to 3 VDC

Digital Output

Number of Channel: 4 Channels

Output Type: NPN Open Collector

Recording

Recording Interface: 1 Sec - 18 Hours (Programmable)

record Mode: Stop When Full or Roll Over

Data Format: Can be Exported to MS Excel

Power Requirements

Power Supply: 85 to 230 VAC

(12 VDC, 24 VDC Optional)

Power Consumption

Standby: 280 mA @ 12 VDC

Start Record: 350 mA @ 12 VDC

Environmental Limits

Operating Temperature: 0 to 55 °C

Operating Humidity: 5 to 95% RH

Storage Temperature: 0 to 70 °C

Physical Characteristics

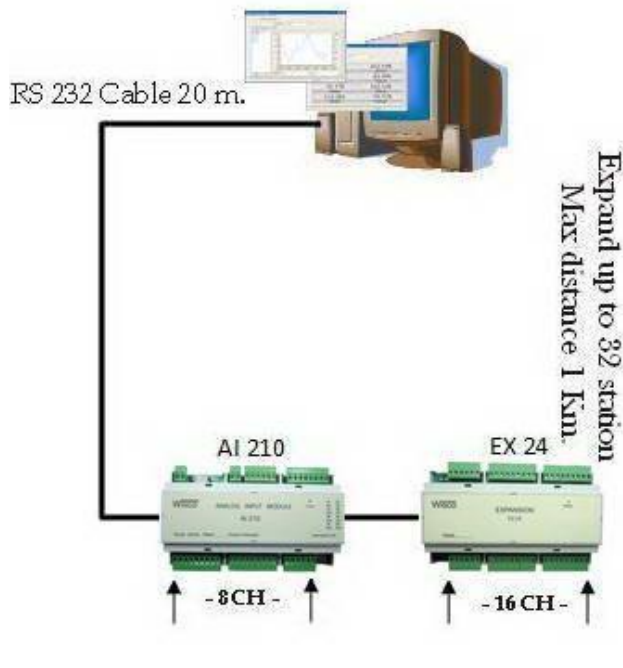
Dimension: W160 x H90 x D60 mm.

Mounting: DIN Rail

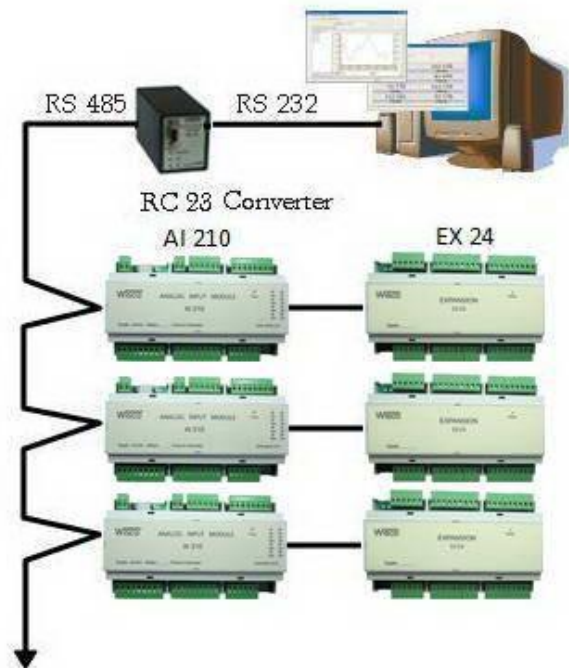
Warranty

Warranty Period: 5 Year

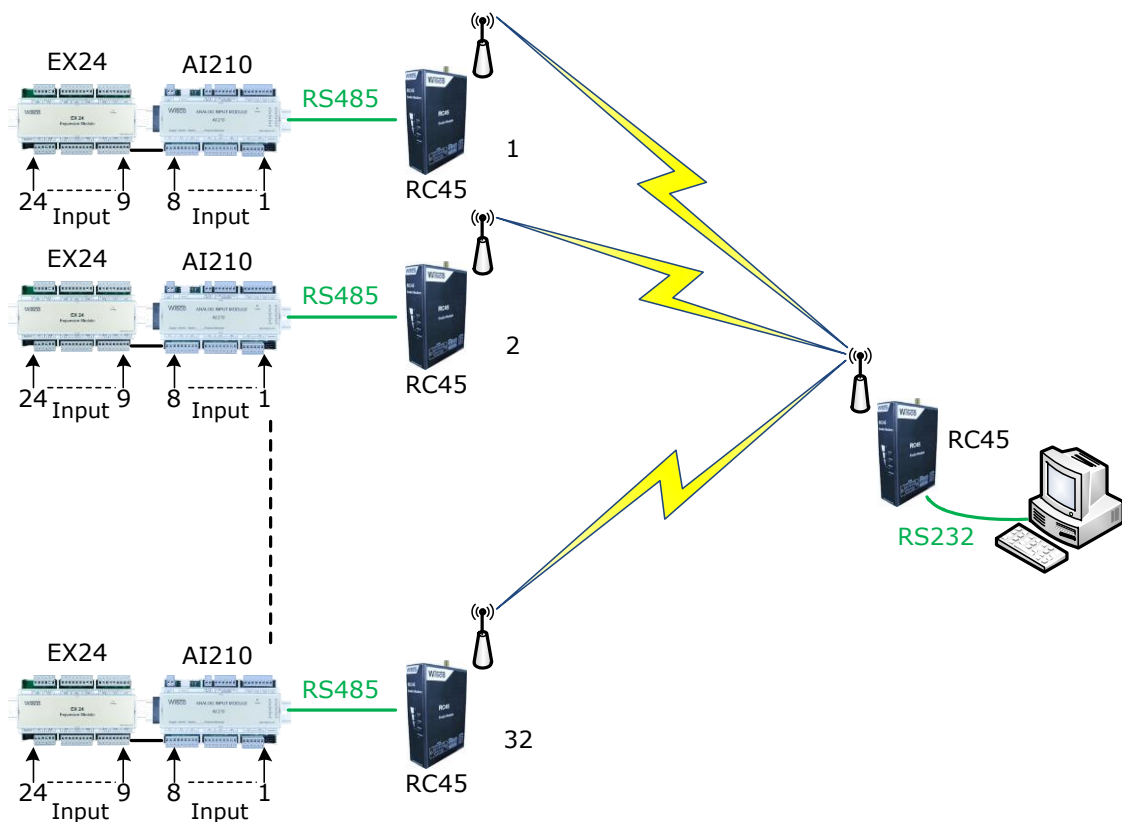
Pc - Based Recorder



Pc - Based Recorder



Wireless Data Logger



PC – Base Recorder Via Internet

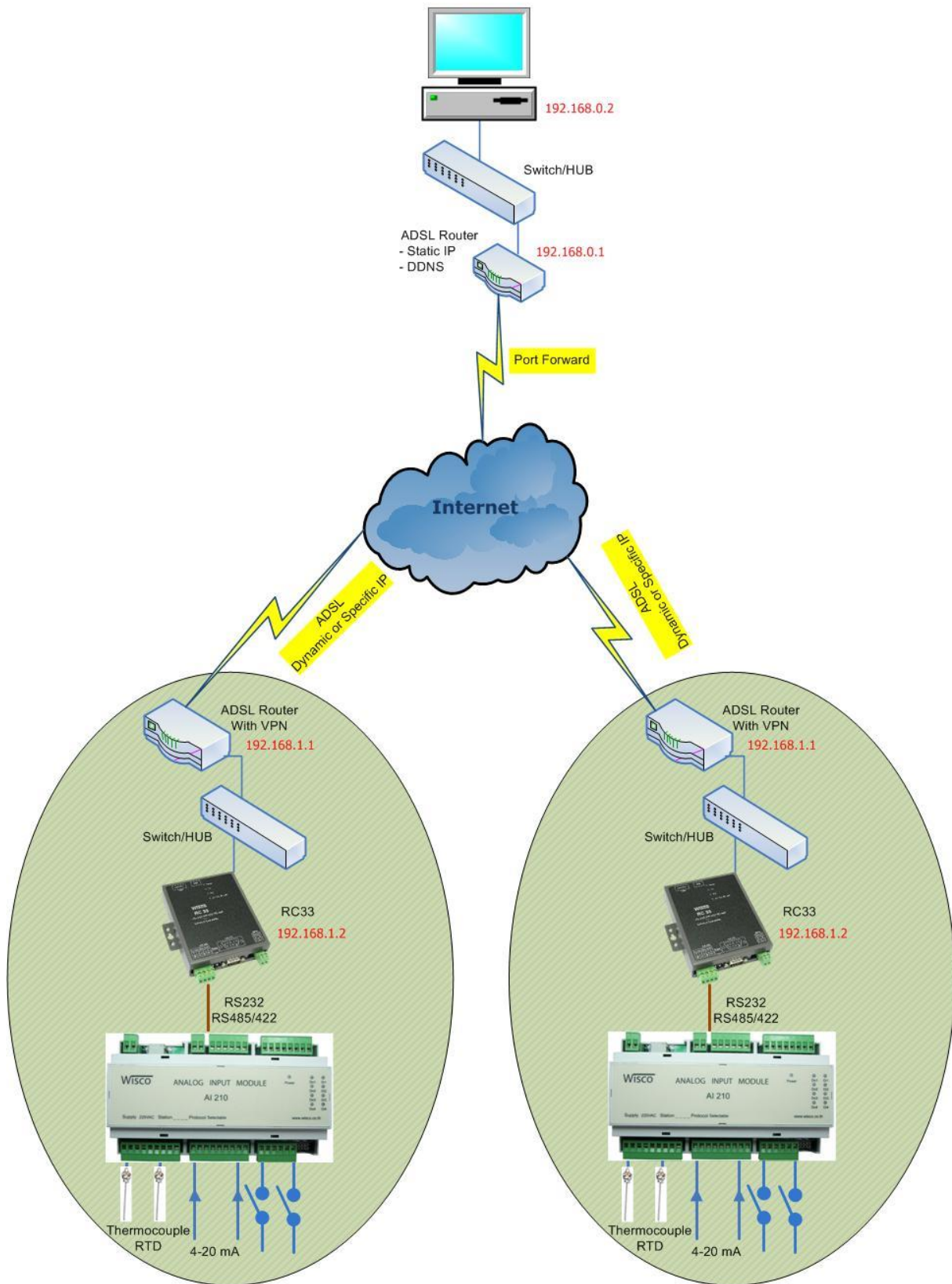


Table 1. Shown Accuracy and Resolution Each Input Type

Input Type		Measuring Range	Resolution	Accuracy (%FS) @25 °C
Thermocouple	R	0 - 1700 °C	1 °C	± 0.2% (3.4 °C)
	S	0 - 1700 °C	1 °C	± 0.2% (3.4 °C)
	K	(-)250.0 - 1300.0 °C	0.1 °C	± 0.2% (2.6 °C)
	E	0.0 - 1000.0 °C	0.1 °C	± 0.2% (2.0 °C)
	J	(-)200.0 - 700.0 °C	0.1 °C	± 0.2% (1.4 °C)
	T	(-)250.0 - 400.0 °C	0.1 °C	± 0.2% (0.8 °C)
	B	0 - 1800 °C	1 °C	± 0.2% (3.6 °C)
R.T.D.	PT100	(-)200.0 - 800.0 °C	0.1 °C	± 0.2% (1.6 °C)
	PT1000	(-)200.0 - 800.0 °C	0.1 °C	± 0.1% (0.8 °C)
	Cu10	0 - 150 °C	1 °C	± 0.1% (1.5 °C)
R (Ohm)	600 Ω	0.00 - 600.00 Ω	0.01 Ω	± 0.01% (0.06 Ω)
	1200 Ω	0.0 - 1200.0 Ω	0.1 Ω	± 0.02% (0.24 Ω)
	4000 Ω	0.0 - 4000.0 Ω	0.1 Ω	± 0.02% (0.8 Ω)
Voltage (mV)	0 - 80	0.000-80.000 mV	1 μV	± 0.1% (5 μV)
	0 - 150	0.00 - 150.00 mV	10 μV	± 0.02% (30 μV)
Voltage (V)	0 - 1	0.0000 - 1.0000 V	100 μV	± 0.05% (500 μV)
	0 - 5	0.000 - 5.000 V	0.001 V	± 0.04% (0.002 V)
	0 - 10	0.000 - 10.000 V	0.001 V	± 0.02% (0.002 V)
	0 - 30	0.00 - 30.00 V	10 mV	± 0.033% (10 mV)
Current (mA)	4 - 20	4.000 - 20.000 mA	1 μA	± 0.01% (5 μA)
	0 - 20	0.00 - 20.00 mA	0.01 mA	± 0.1% (0.02 mA)
	0 - 40	0.00 - 40.00 mA	0.01 mA	± 0.05% (0.02 mA)