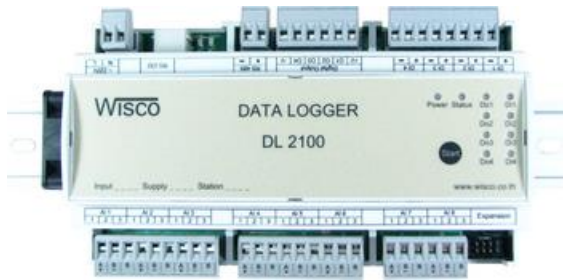


# Data Logger

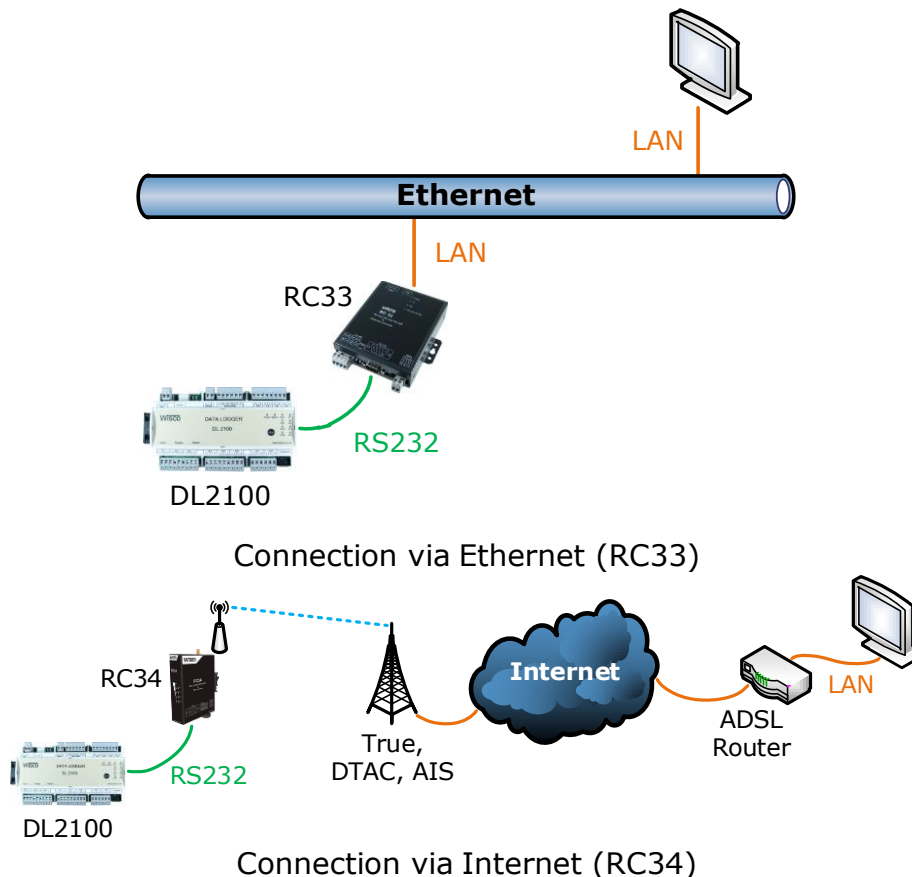
## DL2100



- 8 Channels Analog Input
- 4 Channels Digital Input
- 4 Channels Digital Output
- Memory 2 MByte
- RS232, RS485 (Isolated)

**Data Logger DL2100** can recode analog and digital signal by using its internal memory. The analog input are programmable It can be programmed for many types of sensor for example Thermocouple, PT100, Voltage, current.

DL2100 is supplied with software for download data from DL2100 to computer. The data can be exported to program Excel, MS Words.



## Specifications

### Serial Interface

#### Serial Standards:

RS232 Connector RJ12 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 etc.

### Serial Parameter

**Baud Rate:** 4800, 9600, 19200, 57600

**Data Bits:** 8

**Stop Bits:** 1

**Parity:** None

### Analog Input

**Number of Channel:** 8 Channels

**Input Type:** Programmable Input

#### Input Range:

Thermocouple (R, S, K, E, J, T, B)  
RTD (PT100)

Voltage mVDC (0 to 100 mVDC)

Voltage (0 to 10, 0 to 5 VDC)

Current (0 to 20, 0 to 40 mA)

**ADC Resolution:** 16 Bits

**Isolation:** Relay Isolated

### Digital Input

**Number of Channel:** 4 Channels (Opto  
Isolated)

**Sensor Type:** Wet Contact

**wet Contact (DI to GND):**

OFF : 0 to 3 VDC

ON : 12 to 24 VDC

**Ordering Information:** Specify Power Supply

Example DL2100/220 VAC

### Package Checklist

1. DL2100
2. RS-232 Cable
3. Resistor 250  $\Omega$
4. Manual
5. CD Software

**Counter of Channel:** 1 Channel  
(Channel 4 can use as counter)

**Counter Frequency:** 100 Hz

### Digital Output

**Number of Channel:** 4 Channels

**Output Type:** NPN Open Collector,  
Remote control

### Recording

**Storage Internal:** 2 Mbytes

**Recording Interval:** 1 sec - 18 Hours  
(Programmable)

**Record Mode:** Stop when full or Roll over

**Recording by:** Button SW, Set Time,  
Digital Trig

**Data Format:** Can be exported to MS Excel

**Data Capacity:** 80,580 Records (Enable  
AI 8 Ch/DI 4 Ch/DO 4 Ch/Time Stamp)

### 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

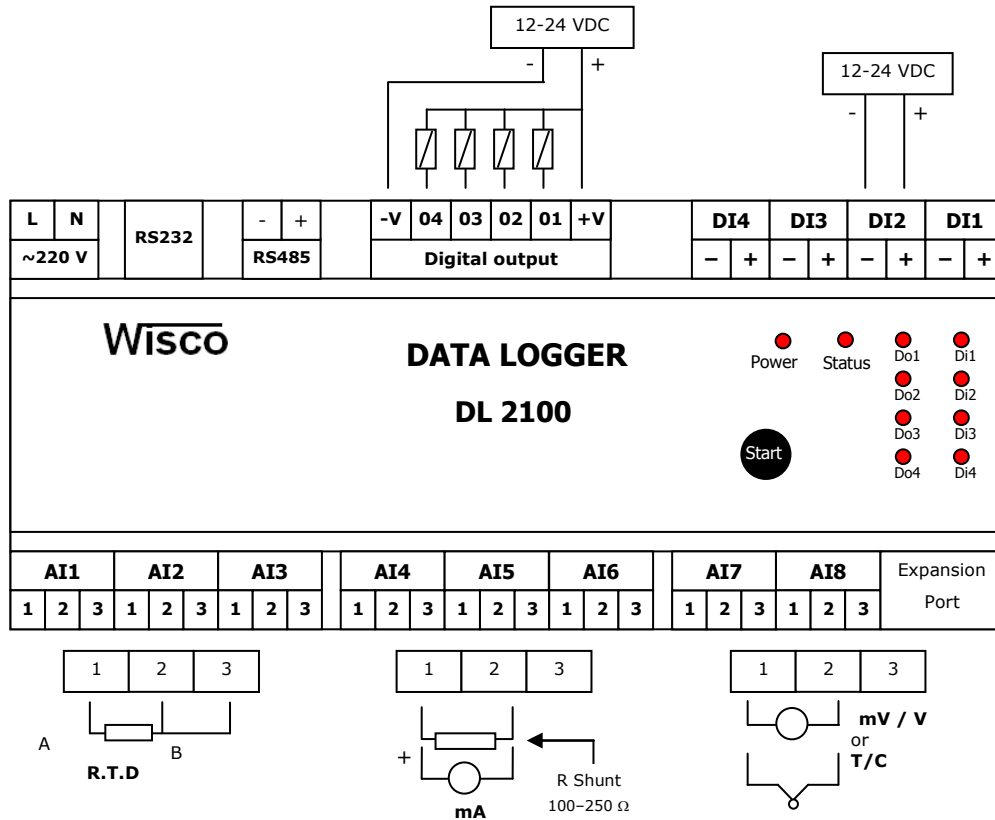
**Dimension:** W160 x H90 x D60 mm.

**Mounting:** DIN Rail

### Warranty

**Warranty Period:** 5 year

## Wiring Diagram



## Analog Input Code

Code	Input Type	Measuring Range	Resolution	Accuracy (%FS) @25 °C	
00	Not Use	-	-	-	
01	Thermocouple	R	0 - 1700 °C	1 °C	± 0.2% (3.4 °C)
02		S	0 - 1700 °C	1 °C	± 0.2% (3.4 °C)
03		K	(-)250.0 - 1300.0 °C	0.1 °C	± 0.2% (2.6 °C)
04		E	0.0 - 1000.0 °C	0.1 °C	± 0.2% (2.0 °C)
05		J	(-)200.0 - 700.0 °C	0.1 °C	± 0.2% (1.4 °C)
06		T	(-)250.0 - 400.0 °C	0.1 °C	± 0.2% (0.8 °C)
07		B	0 - 1800 °C	1 °C	± 0.2% (3.6 °C)
08	R.T.D. Pt100	(-)200.0 - 800.0 °C	0.1 °C	± 0.2% (1.6 °C)	
09	Voltage(mV) 0 - 100	0.00 - 100.00 mV	0.01 mV	± 0.02% (0.02 mV)	
10	Voltage (V)	0 - 5	0.000 - 5.000 V	0.001 V	± 0.04% (0.002 V)
11		0 - 10	0.000 - 10.000 V	0.001 V	± 0.02% (0.002 V)
12	Current (mA)	0 - 20	0.00 - 20.00 mA	0.01 mA	± 0.1% (0.02 mA)
13		0 - 40	0.00 - 40.00 mA	0.01 mA	± 0.05% (0.02 mA)