

# Data Logger DL2200

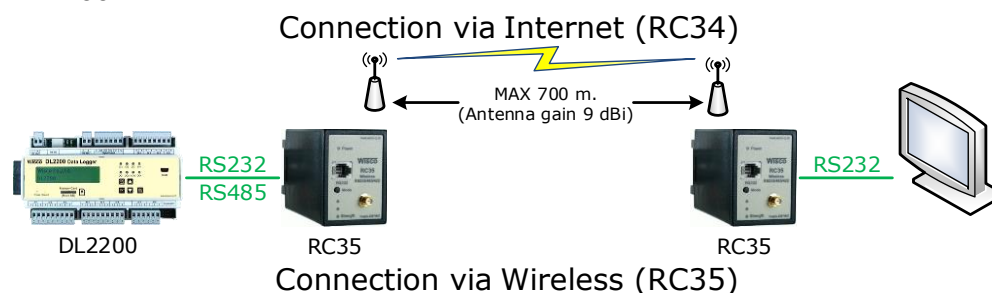
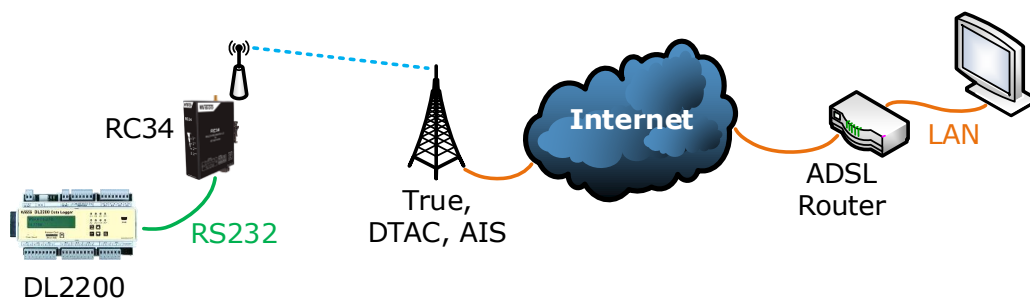


- **8 Channels** Analog Input  
(Programmable input)
- **24 Channels** Adding Module EX24
- **4 Digital** Input / Output
- Isolation Analog Input with Relay,  
Digital Input with Optoelectronic
- Easily configure at Panel LCD and  
Keyboard
- Use **SD card** memory for Data Storage  
**(4GB)**
- Stand Alone Data Logger and Real Time  
Data Acquisition

**Data logger DL2200** is Device for recording Analog signal and Digital signal. Data will be record using Memory Card which is removable and it can be download using computer.

Analog Input of DL2200 is programmable input which can set as various kind of sensor such as Thermocouple, PT100, PT1000, Voltage and Current

Data can be display as table also it can be display as Trend Graph. Utility program which come with the device, has option of export file as CSV. Which is compatible with Windows programs such as Excel and Word.



## Specifications

### USB Interface

**Compliance:** USB 1.1/2.0

**Connector:** USB Type B

**Speed:** 12 Mbps (Full-Speed USB)

**Class:** CDC

**Operating System:** Windows 98/SE, ME, NT, 2000, XP, 7, Vista

### 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

**Supply Software:** Citect, Wonderware, LAB View etc.

### Serial Parameter

**Baud Rate:** 4800, 9600, 19200, 38400, 57600, 115200

**Data Bits:** 7, 8

**Stop Bits:** 1, 2

**Parity:** None, Even, Odd

### 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  $\Omega$ , 0 to 1.2 K $\Omega$ , 0 to 4 K $\Omega$ )

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 DL2200/220VAC

### Package Checklist

1. DL2200
2. RS-232 Cable
3. USB Cable
4. Resistor 250  $\Omega$
5. Memory Card

### Digital Input

**Number of Channel:** 4 Channels

**Sensor Type:** Wet Contact

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

OFF : 0 to 3 VDC

ON : 12 to 24 VDC

**Impedance:** 1 K $\Omega$

**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)

**Over Current Limit:** 500 mA @ 50 VDC

### Recording

**Storage Internal:** 4 Gbytes

**Storage Expansion:** SD Slot

**Recording Interval:** 1 Sec to 18 Hours  
(Programmable)

**Record Mode:** Stop when full

**Recording by:** Button SW, Schedule, Digital Trig

**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  $^{\circ}\text{C}$

**Operating Humidity:** 5 to 95% RH

**Storage Temperature:** 0 to 70  $^{\circ}\text{C}$

### Physical Characteristics

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

**Mounting:** DIN Rail

### Warranty

**Warranty Period:** 5 Year

**Table 1.** Shown Accuracy and Resolution each Input Type

Code	Input Type	Measuring Range	Resolution	Accuracy (%FS) (Temp. 25 °C)	
0	Not Use	-	-	-	
1	Thermocouple	<b>R</b>	0 – 1700°C	1°C	±0.2%(3.4°C)
2		<b>S</b>	0 – 1700°C	1°C	±0.2%(3.4°C)
3		<b>K</b>	(-)250.0 – 1300.0°C	0.1°C	±0.2%(2.6°C)
4		<b>E</b>	0.0 – 1000.0°C	0.1°C	±0.2%(2.0°C)
5		<b>J</b>	(-)200.0 – 700.0°C	0.1°C	±0.2%(1.4°C)
6		<b>T</b>	(-)250.0 – 400.0°C	0.1°C	±0.2%(0.8°C)
7		<b>B</b>	600 – 1800°C	1°C	±0.2%(3.6°C)
20	R.T.D	<b>Cu10</b>	0-150°C	1°C	±0.1%(1.5°C)
21		<b>Pt100</b>	(-)200.0 – 800.0°C	0.1°C	±0.1%(0.8°C)
22		<b>Pt1000</b>	(-)200.0 – 800.0°C	0.1°C	±0.1%(0.8°C)
30	R (Ohm)	<b>600Ω</b>	0.00 – 600.00 Ω	0.01 Ω	±0.01%(0.06 Ω)
31		<b>1200Ω</b>	0.0 – 1200.0 Ω	0.1 Ω	±0.02%(0.24 Ω)
32		<b>4000Ω</b>	0.0 – 4000.0 Ω	0.1 Ω	±0.02%(0.8 Ω)
40	Voltage (mV)	<b>0 - 80</b>	0.000-80.000 mV	1 μV	±0.1%(5μV)
41		<b>0 - 150</b>	0.00 - 150.00 mV	10 μV	±0.02%(30μV)
42	Voltage (V)	<b>0 - 1</b>	0.0000 - 1.0000 V	100 μV	±0.05%(500μV)
43		<b>0 - 5</b>	0.000 - 5.000 V	1 mV	±0.04%(2mV)
44		<b>0 - 15</b>	0.000 – 15.000 V	1 mV	±0.02%(3mV)
45		<b>0 - 30</b>	0.00 – 30.00 V	10 mV	±0.033%(10 mV)
60	Current (mA)	<b>4 - 20</b>	4.000 - 20.000 mA	1 μA	±0.01%(5μA)
61		<b>0 - 20</b>	0.000 - 20.000 mA	1 μA	±0.01%(5μA)
62		<b>0 - 40</b>	0.000 - 40.000 mA	1 μA	±0.05%(0.0A)