

RN006



8CH HTTP Data Transmitter

- ✓ 6CH PT100(3Wired) Sensor Connectivity
- ✓ 8CH Thermocouple K, T type Sensor Connectivity
- ✓ 8CH 4-20mA Sensor Connectivity
- ✓ 8CH 0-5V Sensor Connectivity
- ✓ Auto IP Allocation (DHCP ON)
- ✓ HTTP, MODBUS TCP, UDP Broadcasting
- ✓ Telnet Support

Product Overview

The device is an analog signal RN006 (PT100, thermocouple , 4-20mA, 0-5V) transmitter , which transmits it to the server through the Ethernet port is connected to measure the 8CH. Collection port of 8CH may set the operating mode via USB. Support for the MODBUS TCP communication method (TCP-Holding Register for 16 Data floating), can be interlocked with various PLC devices , and a server via HTTP protocol documentation provided can build yourself .

Application

- PT100 Data Logger
- Thermocouple Data Logger
- 4-20mA Data Logger
- 0-5V Data Logger

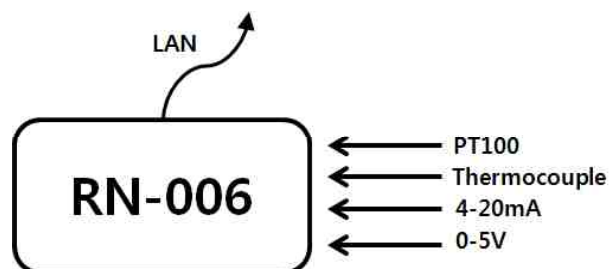
사용처

- Food storage warehouses
(refrigerators and freezers)
- Bio Research
- Building energy usage
- Drug Storehouse
- Semiconductor Production Line

Order Number

- MODEL : RN006

Block Diagram



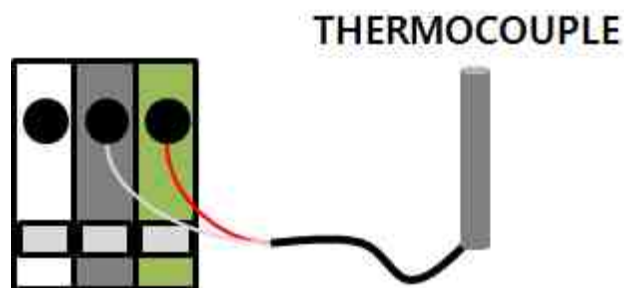
1. Specifications

RN006 Specifications	
Size	H85 * W190 * D35 (mm)
Power	6V(DC), 1.8W
Logging	1 Sec (Interval)
USB Port	USB 2.0 Type A Plug
Analog Input	PT100, Thermocouple(K,T), 4-20mA, 0-5V
Operating Condition	Temperature : -40~80°C Humidity : 5~ 95%RH

2. 사용방법

2.1 Thermocouple 결선방법

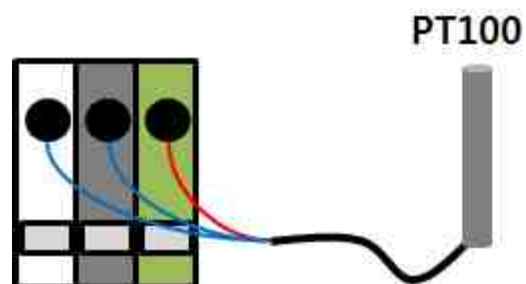
Thermocouple is K, and T-type Connect the sensor . Total and eight channels are supported , the connection method is as follows.



+ Of Thermocouple is usually red , - is white

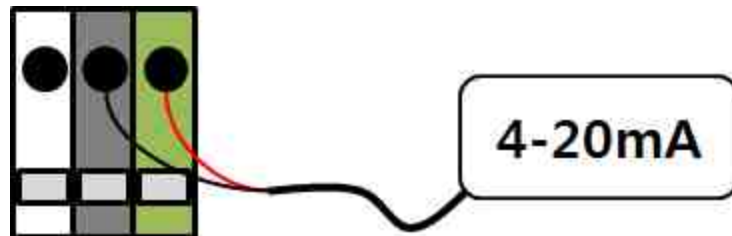
2.2 PT100 결선방법

PT100 3 wire PT100 sensor uses . All six channels are supported, and (7,8CH Do Not Support) , the connection method is as follows .



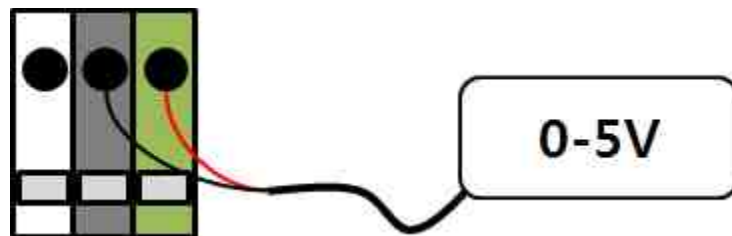
2.3 4-20mA 결선방법

The 4-20mA signal is the internal resistance of 100 ohms when connected RN006 . Total and eight channels are supported , the connection method is as follows.



2.4 0-5V 결선방법

Total and eight channels are supported , the connection method is as follows.



3. HTTP 프로토콜 정의

3.1 HTTP 요청

```
http://[SERVER-ADDRESS]/[DATAIN-ILE]?gwid=0004a316d728&nodeid=00158d000011b3d6
&lqi=195&child=0&nodetype=1&batt=255&sd1=20.28&sd2=20.29&sd3=-3.24&sd4=23.52
```

gwid	: RN-006 uses the MAC address as the unique ID have.
nodeid	: Uses the MAC address as the unique ID of the node that sent the information .
lqi	: Displays the radio signal's intensity of the node's values from the value of 0-255 .
child	: The display can exist as a child of a child of that node .
nodetype	: 1: RN-300 humidity wireless device , 2: RN-900 general-purpose wireless transmit Receiver , 3: RN-200 radio repeater 4:RN-500 monitor node (display)
batt	: Displays the status of the node batt . "255" if the battery is normal , and "5 " , the battery Must be replaced .
sd(x)	: x is the order of the document title and the value of the sensor means . Appear until the second decimal place is also negative can occur.

4. Inquire And Warranty

- 1 year in service a product defect during Ching A / S
 - failure due to excessive environmental exposure of the user 's negligence or equipment will continue to capital A / S
- MAKE : DEKIST Co.,Ltd
 - PHONE : 070-7529-4359
 - Fax : 031-8039-4400
 - Email : master@dekist.com

CAUTION : Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.