

RN910



Radionode Wireless 4-20mA Transmitter

- ✓ **Multi Function Wireless Transmitter**
- ✓ **2.4GHZ (IEEE 802.15.4)**
- ✓ **4-20mA In/Out**
- ✓ **PT100 Sensor Support**
- ✓ **Interworking Wireless Data Logger**
- ✓ **1:1 4-20mA wireless transmission function**
- ✓



Overview

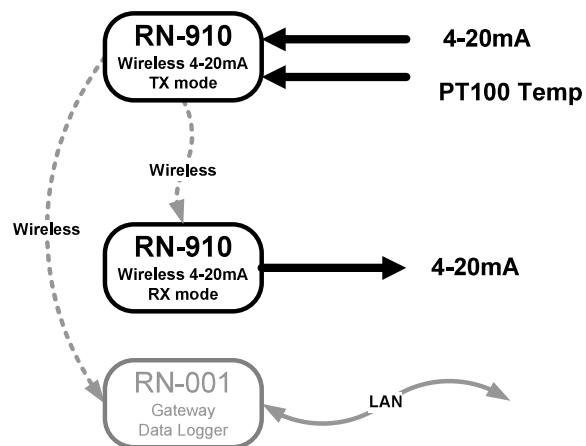
RN910 RADIONODE is a radio transmitter and receiver of the multi-function 4-20mA. Basically you RN910 4-20mA two tracks it is possible to connect wirelessly. Other features include information that is collected is sent to the data logger. With 4-20mA output transmitter PT100 sensor products and it is possible to connect directly.

Connection of data logger RADIONODE was configured to use RN001 products. Through this product, 4-20mA or PT100 temperature record of the information, remote access, you can have a notification letter. RADIONODE RN001 products various monitoring functions it is possible to work with.

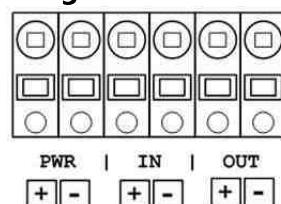
Application

- 4-20mA 1:1 Building Wireless Cable
- Wireless 4-20mA DataLogger
- Wireless Temperature DataLogger

Block Diagram



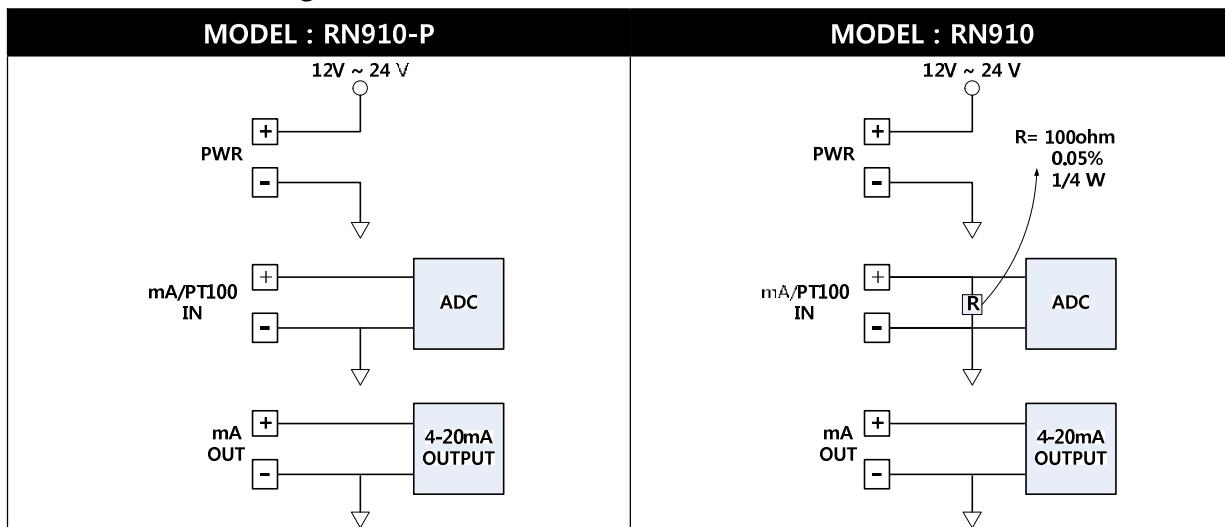
Terminal Configuration



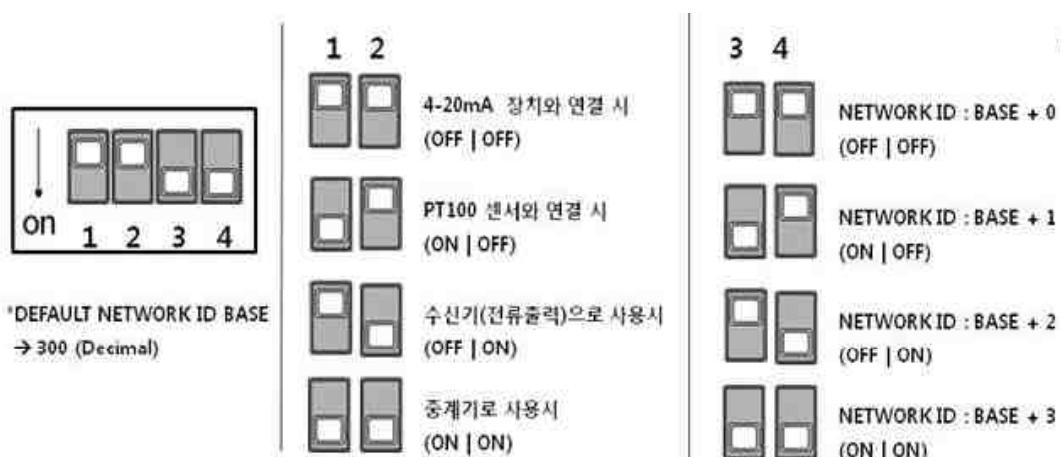
1. Specification

RN-910 Specification			
Dimension	62 * 89 * 27 (mm)	Power	12VDC ~ 24VDC , 0.42 W
4-20mA Input	Accuracy : $\pm 0.08\%$ F.S, Resolution : 0.01 mA Sample Rate : 100 msec Max Input Current : 23mA	4-20mA Output	Accuracy : $\pm 0.08\%$, F.S Resolution : 0.01 mA Update Rate : 1 Sec
TX / RX RF Power	TX: 10dBm , RX : -95dBm	Data Logger	Compatible with RN001 Series Update Rate : 5 Sec
Wireless Network	2.4 GHz / Tree Topology	USB Port	232C Compatible Console (RN910 USB Driver Required)
External Temp Sensor (3 Wire PT100 TYPE) <RN910-P Only>	Range -200°C ~ 300°C Resolution : 0.1°C Accuracy : $\pm 1^\circ\text{C}$ Sample Rate : 100 msec	MODE	1) 4-20mA TX mode, <RN910 Only> 2) PT100 TX Mode <RN910-P Only> 3) Receiver RX Mode, 4) Router Mode
Measuring Current for PT100	0.50mA <RN910-P Only>	Operation Condition	Temperature : -30~50°C , Humidity : 5~ 80%RH

2. Internal Block Diagram

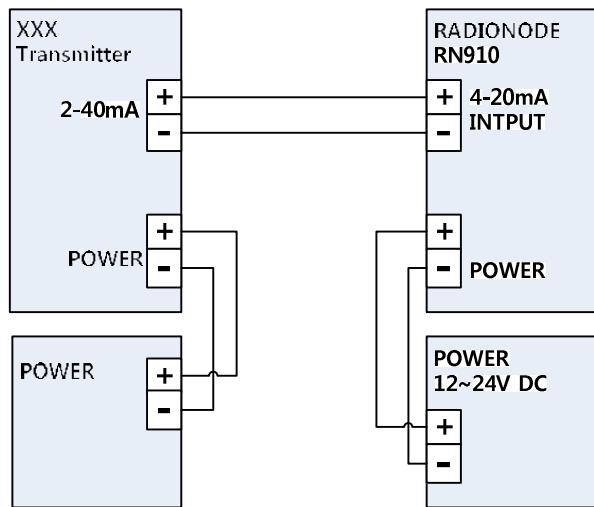


3. Switch

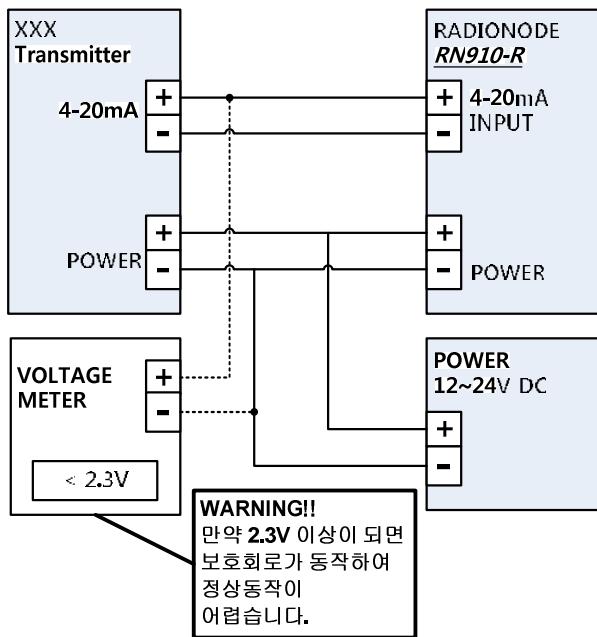


4. Connect Wire

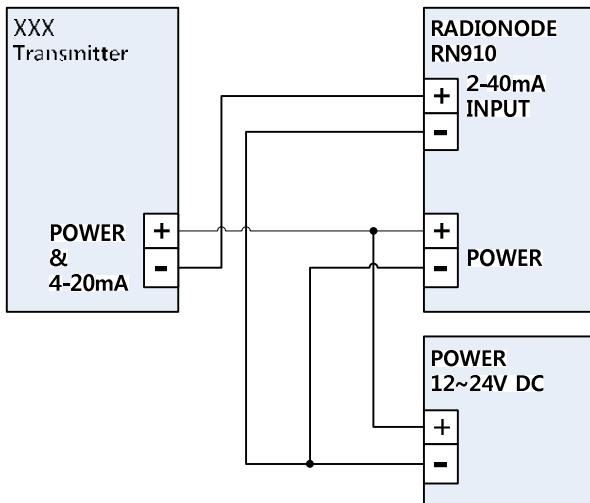
As an independent power source, RN910



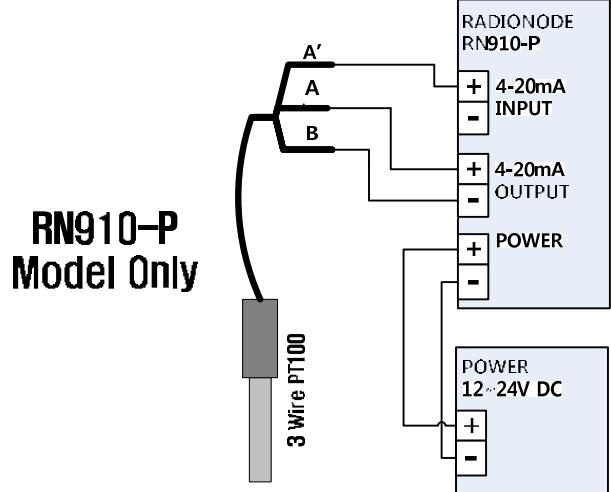
Power for public use, RN910



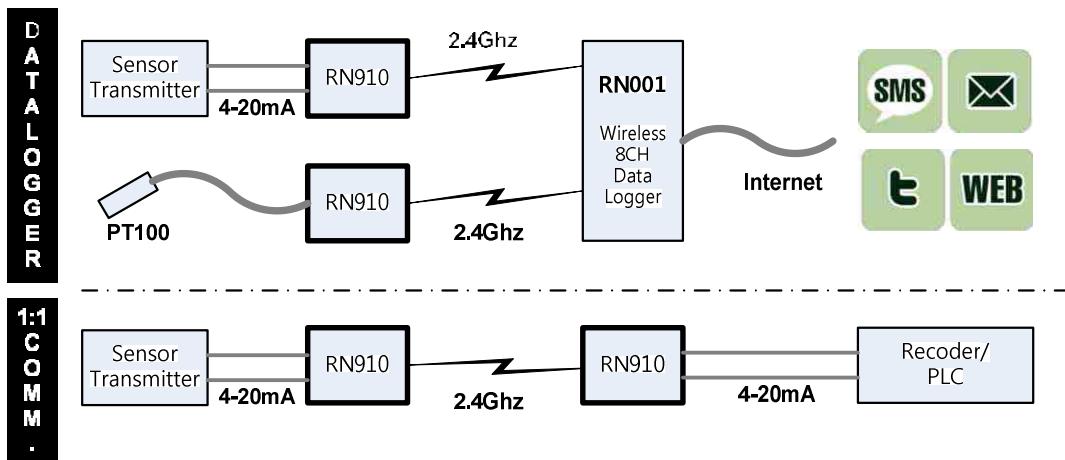
Used as power supply and current output, RN910



3-wire PT100 temperature sensor connection, RN910-P



5. Application



6.LED

- TX LED : The wireless data transfer mode
- RX LED : The wireless data Receive mode
- TX & RX All Off : Wireless
- 4 DIGIT LED : Current Value Display
- 4 DIGIT LED : Temperature
- 4 DIGIT LED : Wireless strength

7. Product Inquiry and A/S

- free AS: 1 year from date of purchase
- Capital AS: After one year from date of purchase
- Manufacturer : Dekist Co.,Ltd
- Phone : 070-7529-4359
- Fax : 031-8039-4400
- Email : master@dekist.com

FCC ID : 2ABC3-RN910

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

FCC RF Exposure Requirements: The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.