Wireless Gateway

User's Guide

WW-3C28

Wintec®
wireless electronics

低功率電波輻射性電機管理辦法

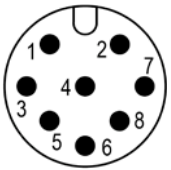
第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Indicator

Status Indicator	Green lights stay on: Wireless data receiving. Red lights stay on: Wireless data transmission. Green + Red lights stay on: RF part entry boot mode.
Power Indicator	Green lights stay on: Power ready. Red lights stay on: Entry setup mode. Green + Red lights stay on: Main part entry boot mode.

Interface



- 1 DC in+: 12V to 36V DC / 1A
- 2 DC in-: GND
- 3 DC out+: 5V DC / 200mA
- 4 DC out-: GND
- 5 RS-485 A: Non-isolator differential interface, Data-
- 6 RS-485 B: Non-isolator differential interface, Data+
- 7 A / D input: Analog Input support 0~10 V / 4~20 mA / ADC Digital Input support High / Low signal judge
- 8 Dio output: Digital Output support PWM / Latch Mode

Antenna Connector: RP-SMA-Female

∎Specification

Product Type	Outdoor
Air Stream Protocol Operating	LoRa Wireless Protocol (No support LoRaWan)
Frequency Range	410 ~ 525MHz / 862 ~ 1020MHz (According to the local regulatory compliance.)
Sensitivity	Up to -136dBm@SF=7 / 10.4K bandwidth
Transmit RF Power	Maximum 25mW
Interface	RS-485x1 / Analog or Digital Input x1 / Digital Output x1
RS-485 Protocol	Modbus RTU
Serial Interface Baud Rate	1200bps/2400bps/4800bps/9600bps/19200bps/ 38400bps / 57600bps / 115200bps / 230400bps
Analog Input	Analog Input Support 0~10 V / 4~20 mA / ADC(0~10 V)
Digital Input	Digital Input Support High / Low Signal Judge
Digital Output	Digital Output Support PWM / Latch Mode
Operating Temperature	-40°C ~ 85°C
Topology	Broadcast / Group / Peer to Peer
Main Unit Dimensions	10 x 10 x 4.8 cm (Not include antenna and external connect)
Weight	195g
Waterproof	IP 68
Input Power Supply Output	12V ~ 36V DC / 1A
Power Supply Power Consumption	5V DC / 200mA (Max.) 24V 15mA @868 / 920MHz receive 24V 95mA @868 / 920MHz transmit 25mW
Special Specification	Flame Retardant

*Support Setup or firmware update function via RS-485 interface.

∎AUX I / O Remote Command

Additional command information is available at www.win-tec.com.tw

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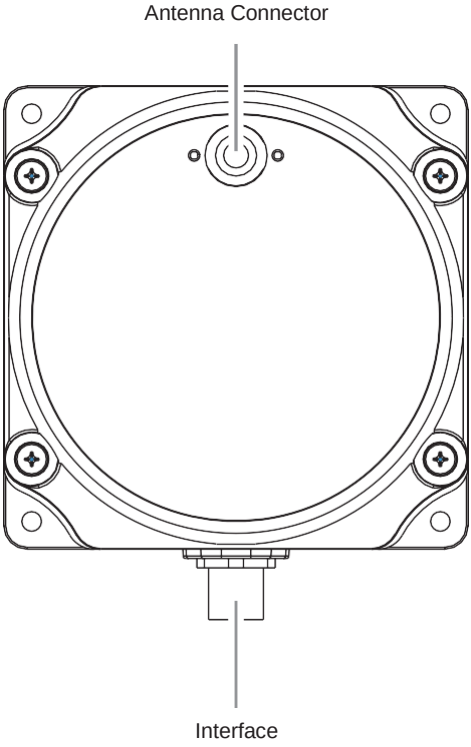
Introduction

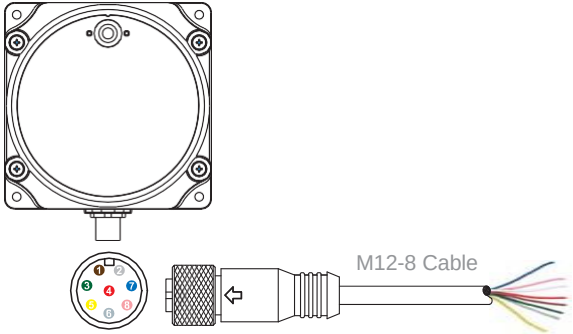


Cable Define

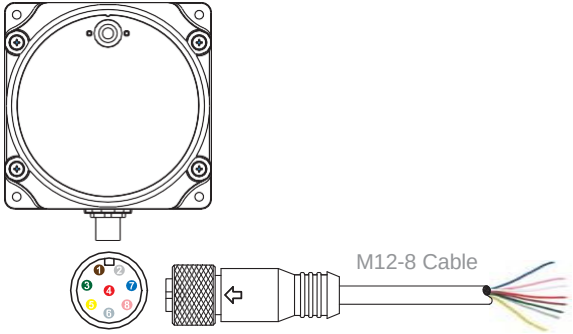
M12-8 Cable

Pin Define	Cord end Terminal Color	Pin Function
1	Brown	DC in+
2	White	DC in-
3	Green	DC out+
4	Red	DC out-
5	Yellow	RS-485 A
6	Gray	RS-485 B
7	Blue	A/D input
8	Pink	D output

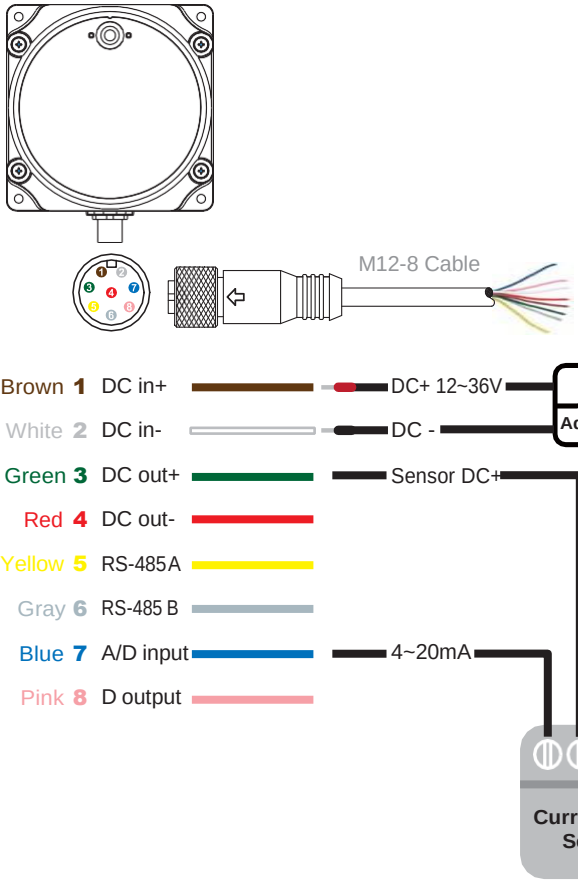
Connect the PC



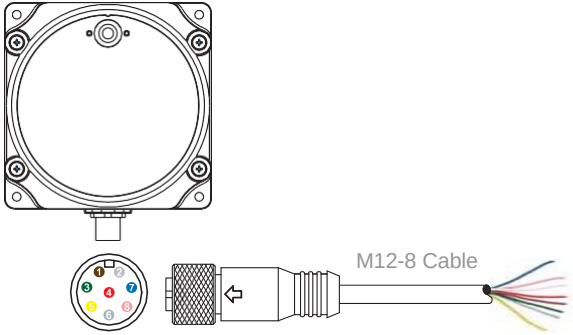
Connect the RS-485 Sensor



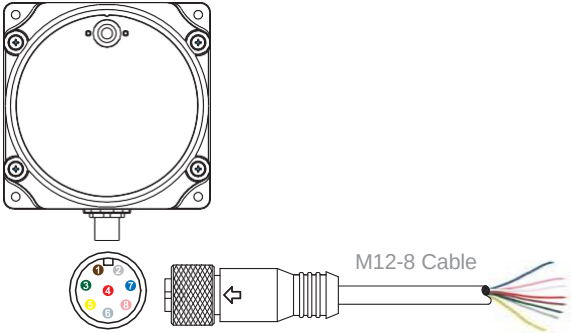
Connect the 4~20mA Sensor

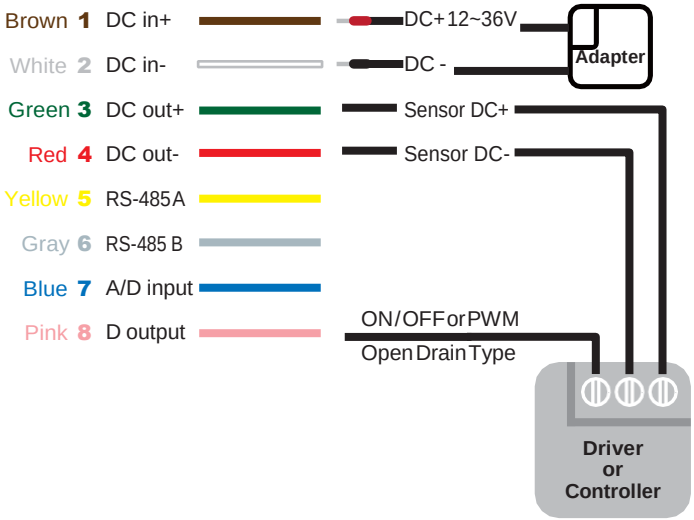


Connect the 0~10V Sensor

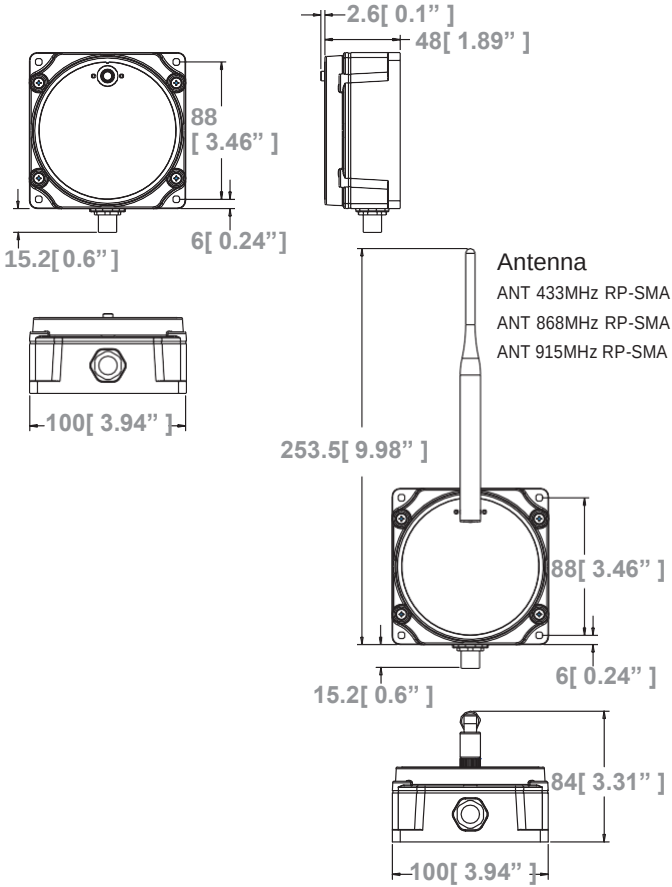


Connect the Driver / Controller

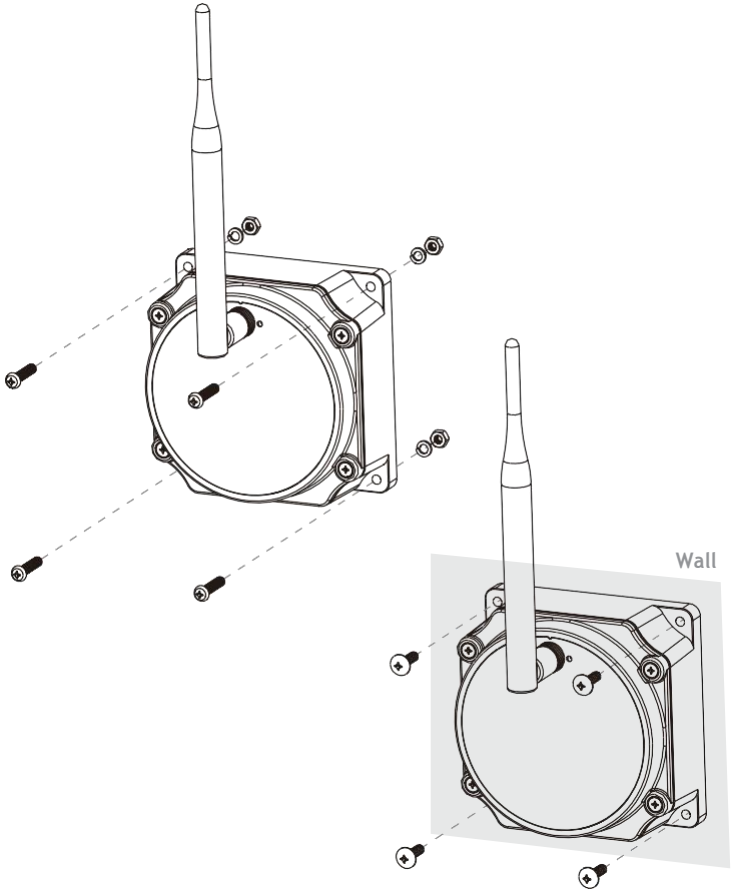




Dimensions


2.6[0.1”]
48[1.89”]
88
[3.46”]
6[0.24”]
15.2[0.6”]
100[3.94”]
Antenna
ANT 433MHz RP-SMA
ANT 868MHz RP-SMA
ANT 915MHz RP-SMA
253.5[9.98”]
88[3.46”]
6[0.24”]
15.2[0.6”]
84[3.31”]
100[3.94”]

Assembling



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