Wireless Gateway

Connection Guide

WW-3D28

Wintec®
wireless electronics

NOTED

*AUX port cable outside diameter needs to be between 3~7 mm.
*When all cable gland fixing head are not wired, the inner cable gland sealing plug rod can be installed first to avoid dust and water infiltration.

WARNING

To reduce the risk associated with all applicable hazards:
*Read and follow all safety information contained in the installation instructions and Product Safety Guide Prior to installing, using or servicing the wall mount. Retain these instructions for future reference.

To reduce the risk associated with choking:
*Do not allow children access to small parts and / or packaging materials.
*Do not modify the physical aspects of the wall mount.
*Do not install on a mounting structure or surface that is prone to vibration, movement or chance of being impacted.
*Proper installation and servicing must be performed by experienced installers as outlined in the installation instructions.

To reduce the risk associated with impact:
*The EQUIPMENT is required hardware when installing the EQUIPMENT Mount onto concrete block walls and stud walls.
*Do not climb on, hang on or place any added weight other than the EQUIPMENT on the fixed or folding wall mount.

A symbol such as ISO 7000-0434 (2004-01) or a combination of this symbol and ISO 7000-1641 (2004-01) to refer to text in an accompanying document. These symbols may be combined.

Indicator

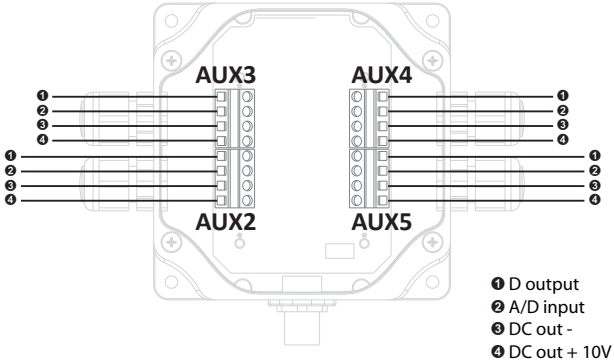
- ***Status Indicator***
  Green lights stay on: Wireless data receiving.
  Red lights stay on: Wireless data transmission.
  Green + Red lights stay on: RF part entry boot mode.
- ***Power Indicator***
  Green lights stay on: Power ready.
  Red lights stay on: Entry setup mode.
  Green + Red lights stay on: Main part entry boot mode.
  Green + Red lights flashing: External I/O board entry boot mode.
  Green light stay on + Red lights flashing: External I/O board error or disconnect.

Interface

- Main Port

❶ DC in+: 12V to 36V DC / 1A
❷ DC in-: GND
❸ DC out+: 10V / 100mA
❹ DC out-: GND
❺ RS-485 A: Non-isolator differential interface, Data-
❻ RS-485 B: Non-isolator differential interface, Data+
❼ A / D input:
Analog Input Support 0~10 V / 0~20 mA / 4~20 mA / ADC (0~10 V)
Digital Input support High / Low signal judge
❽ D output: Digital Output support PWM / Latch Mode
Antenna Connector: RP-SMA-Female

- AUX I / O Ports



Specification

Product Type	Outdoor
Air Stream Protocol	LoRa Wireless Protocol (No support LoRaWan)
Operating 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 2W
Interface	RS-485 x 1 / Analog or Digital Input x 5 / Digital Output x 5
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 / 0~20 mA / 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	250 g
Waterproof	IP 68
Input Power Supply	12V ~ 36V DC / 1A
Output Power Supply	Main Port: 10V DC / 100mA (Max.) AUX2~AUX5: 10V DC / 50mA (Max.)
Power Consumption	24V 15mA @868 / 920MHz receive 24V 400mA @868 / 920MHz transmit 2W
Special Specification	Flame Retardant

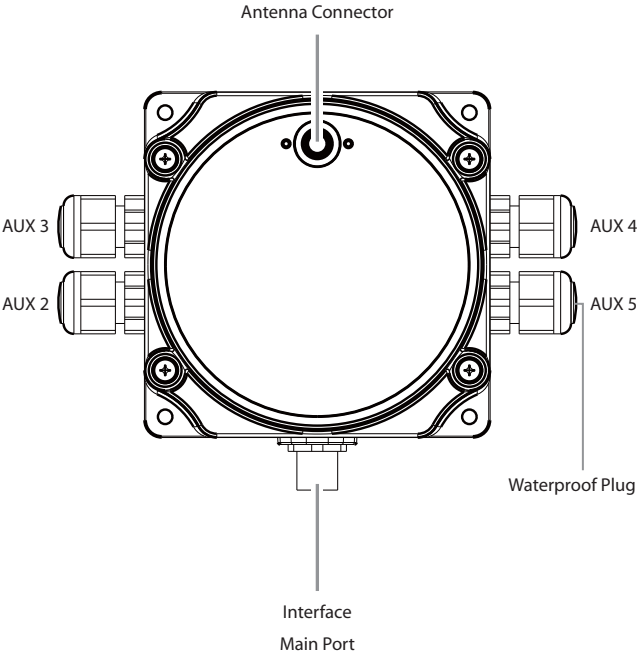
* Support Setup or firmware update function via RS-485 interface.

AUX I / O Remote Command

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

Contents

Introduction

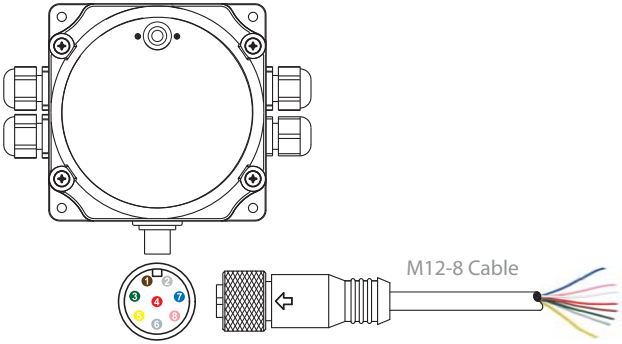


Cable Define

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



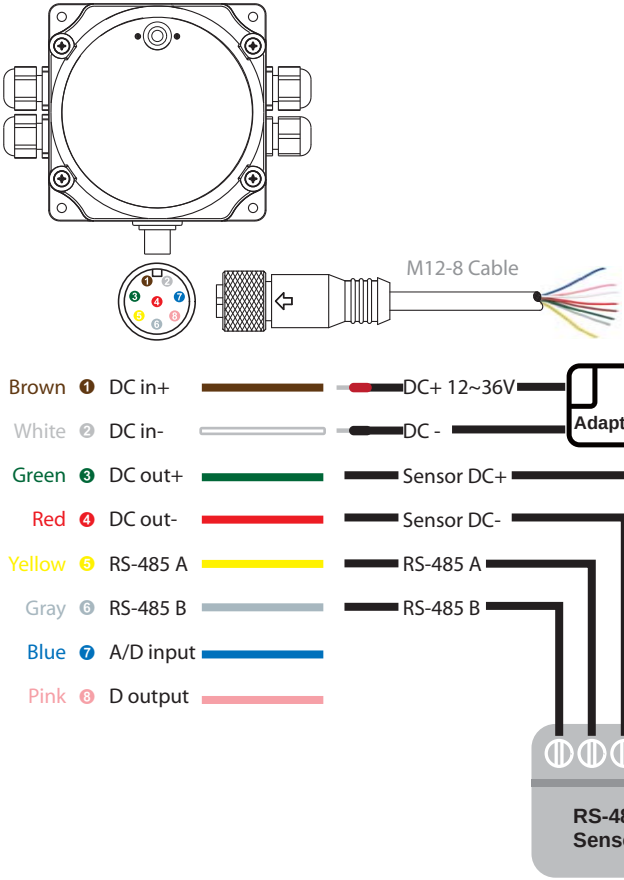
Brown	❶	DC in+	DC+ 12~36V
White	❷	DC in-	DC -
Green	❸	DC out+	
Red	❹	DC out-	
Yellow	❺	RS-485 A	RS-485 A
Gray	❻	RS-485 B	RS-485 B
Blue	❼	A/D input	
Pink	❽	D output	

Adapter

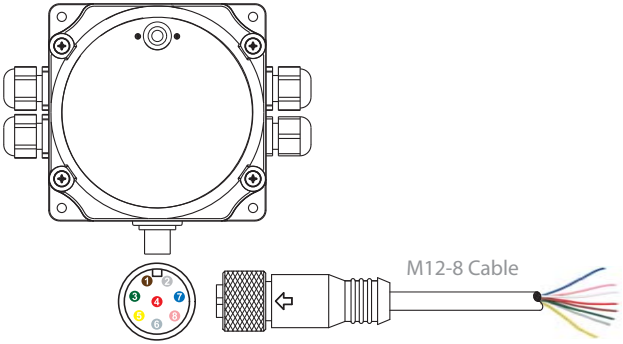
Power Line

USB to RS-485 Cable

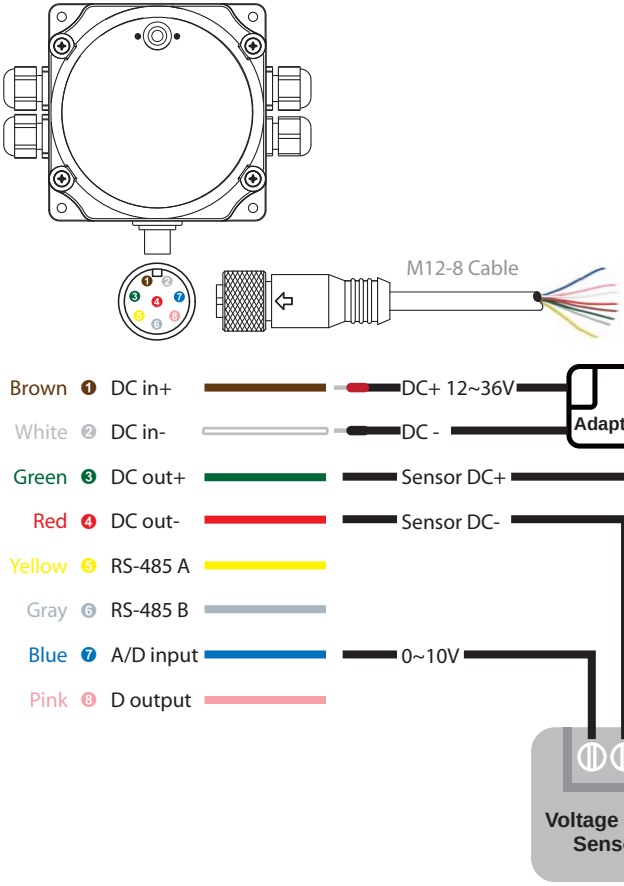
Connect the RS-485 Sensor



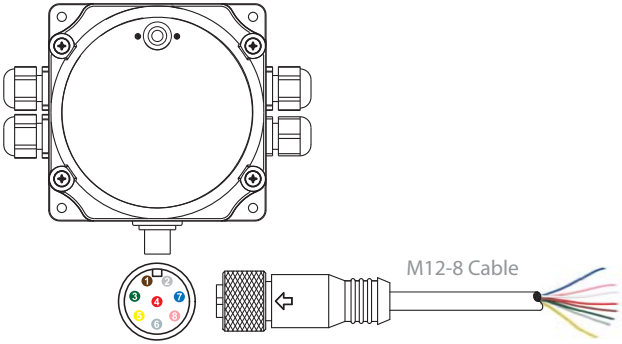
Connect the 0~20mA / 4~20mA Sensor



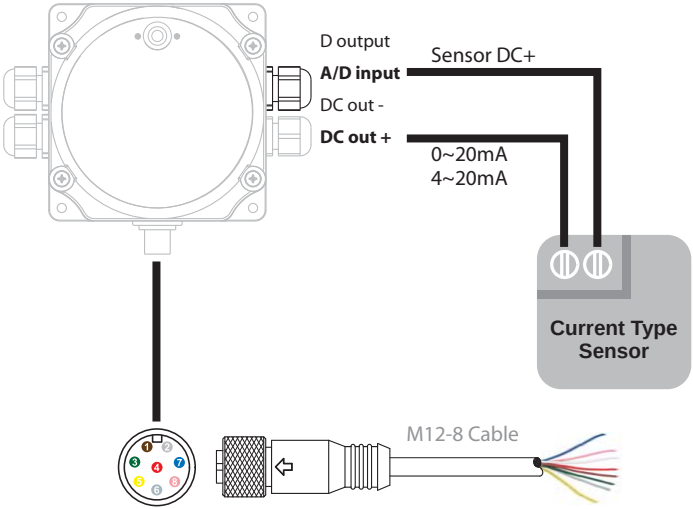
Connect the 0~10V Sensor



Connect the Driver / Controller



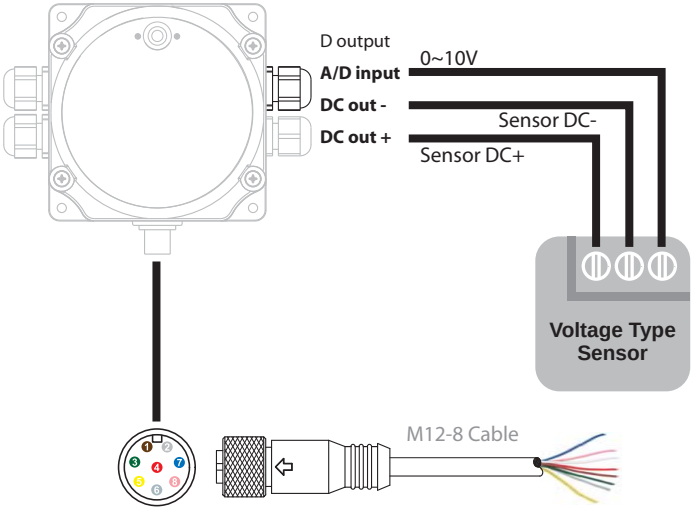
External I/O
Connect the 0~20mA / 4~20mA Sensor

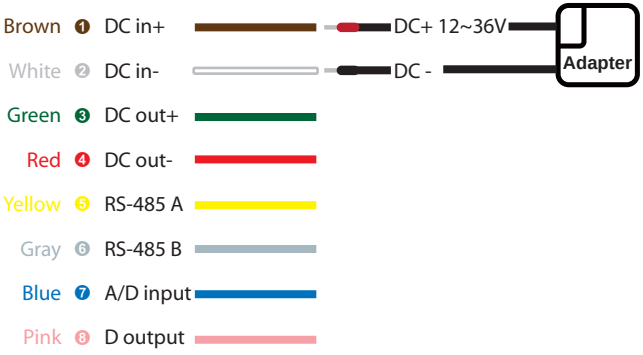


Brown	❶	DC in+	DC+ 12~36V
White	❷	DC in-	DC -
Green	❸	DC out+	
Red	❹	DC out-	
Yellow	❺	RS-485 A	
Gray	❻	RS-485 B	
Blue	❼	A/D input	
Pink	❽	D output	

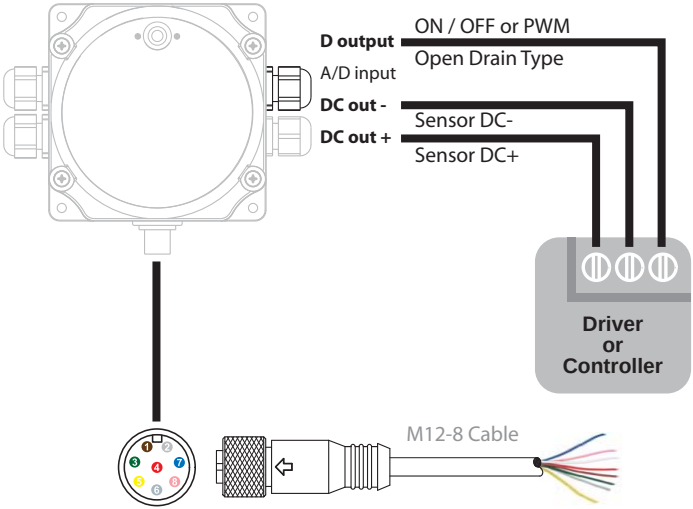
Adapter

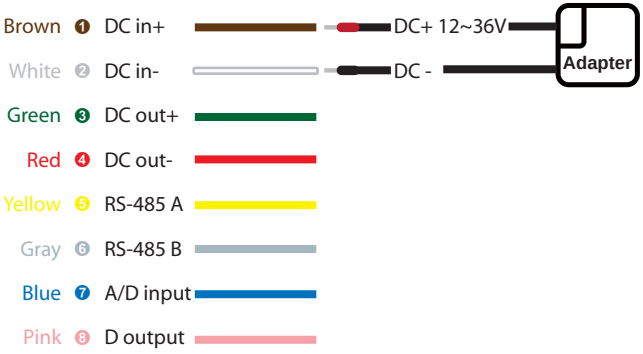
External I/O
Connect the 0~10V Sensor



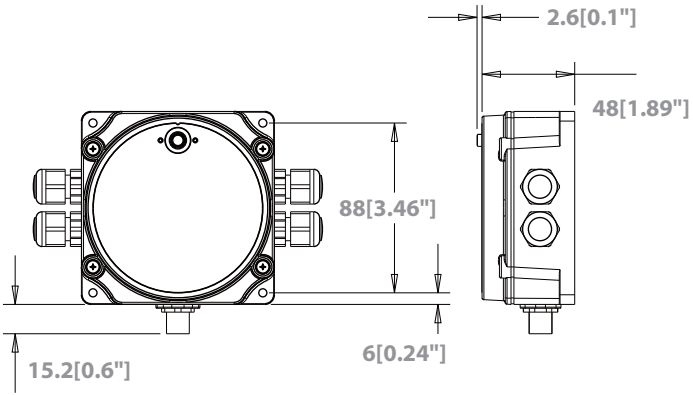


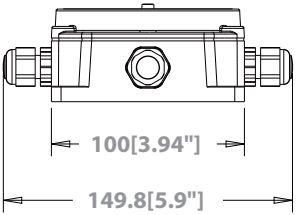
External I/O
Connect the Driver / Controller



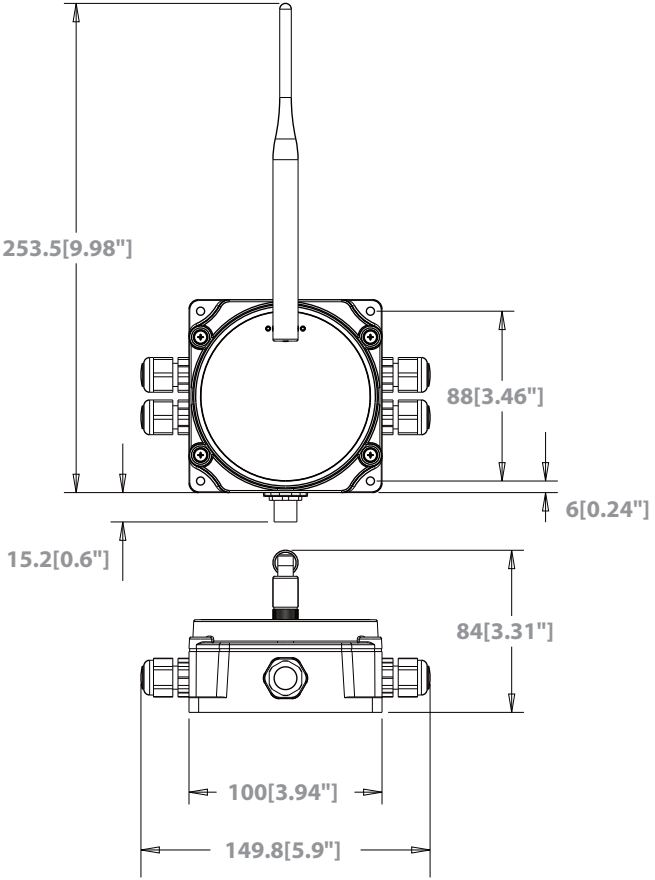


Dimensions



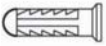
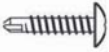


Dimensions



Installation Guide

Screw List

Item		Description	Spec	Units
❶		Phillips Mechanical Stainless Steel Metal Screw	M4*20mm	4
❷		Spring Washer	M4	4
❸		Hex Nut	M4	4
❹		Phillips Self Tapping Stainless Steel Metal Screw	M4	4
❺		Nylon Hammer Drive Anchor	1/4*1	4
❻		Self-Drilling Screw	8#3/4	4

Installation Guide

To install the lock screw sequence, it is recommended to use the upper right → upper left → lower left → lower right mode to avoid falling.

The following parts can be used when installed on a device that has been drilled first.

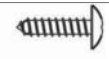
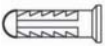
Item		Description	Spec	Units
❶		Phillips Mechanical Stainless Steel Metal Screw	M4*20mm	4
❷		Spring Washer	M4	4
❸		Hex Nut	M4	4

After piercing the screw, put on the spring washer and nut and lock it.

The following parts can be used when installed on a wooden wall.

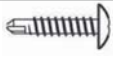
Item	Description	Spec	Units
❹ 	Phillips Self Tapping Stainless Steel Metal Screw	M4	4

The following parts can be used when installed on a concrete wall.

Item	Description	Spec	Units
❹ 	Phillips Self Tapping Stainless Steel Metal Screw	M4	4
❺ 	Nylon Hammer Drive Anchor	1/4*1	4

Please drill first (aperture 6mm depth 20mm), put it into the nylon hammer drive anchor, then lock the screw.

The following parts can be used when installed on a metal wall.

Item	Description	Spec	Units
❻ 	Self-Drilling Screw	8#3/4	4

Assembling

* To install the lock screw sequence, it is recommended to use the upper right → upper left → lower left → lower right mode to avoid falling.

www.win-tec.com.tw
sales@win-tec.com.tw

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