Wireless Sensor Node

Connection Guide

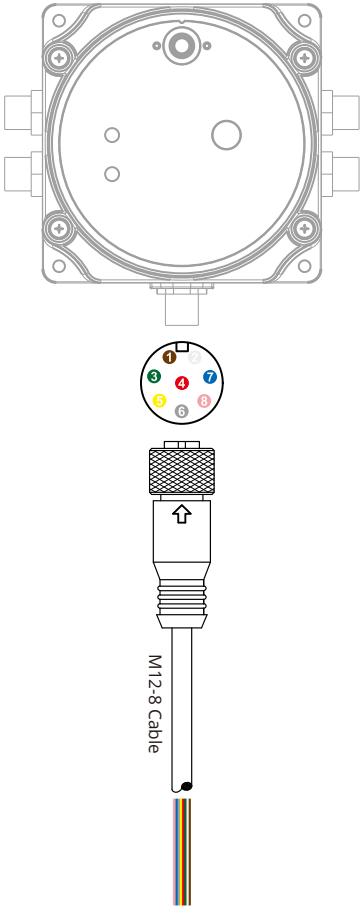
WW-5H20

WW-5H2B
(with Redundant Battery)

Wintec®
wireless electronics

Contents

Connect to PC / Setting Parameters / Firmware Update



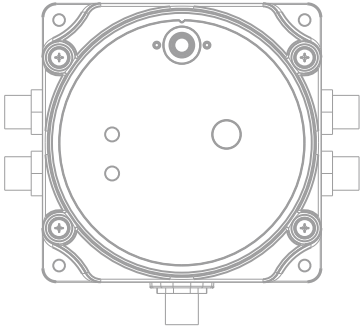
❶ Brown: Vin+	DC+ 7~36V
❷ White: Vin-	DC-

Adapter

❺ Yellow: RS-485 A	RS-485 A
❻ Gray: RS-485 B	RS-485 B

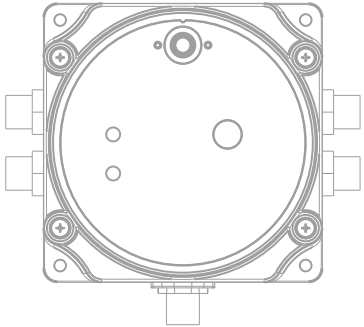
USB to RS-485 Cable

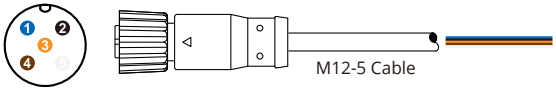
Connect the RS-485 Sensor



❶ Brown: Vin +	DC+ 7~36V	Adapter
❷ White: Vin -	DC-	
❺ Yellow: RS-485 A	RS-485 A	RS-485 Sensor
❼ Blue: Battery NTC	RS-485 B	
❽ Pink: RS-485 GND	RS-485 GND (Unnecessary)	

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





2-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❸ Orange: Analog / Digital Input +	0~20mA / 4~20mA

Current Sensor

3-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❷ Black: Vout -	Sensor DC -
❸ Orange: Analog / Digital Input +	0~20mA / 4~20mA

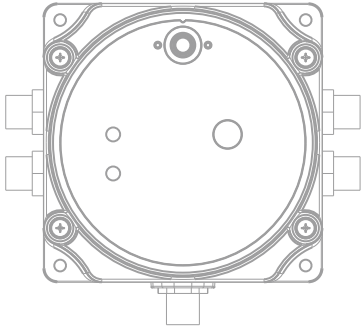
Current Sensor

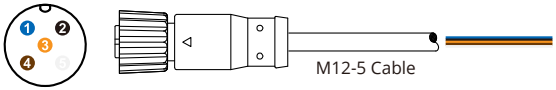
4-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❷ Black: Vout -	Sensor DC -
❸ Orange: Analog / Digital Input +	0~20mA / 4~20mA Diff +
❹ Bwron: Analog / Digital Input -	Diff -

Current Sensor

Connect the 0~10V / -10~0V Sensor





2-Wire Sensor

❸ Orange: Analog / Digital Input +	0~10V / Diff +
❹ Bwron: Analog / Digital Input -	Ground / Diff -

Votage Sensor

3-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❷ Black: Vout -	Sensor DC -
❸ Orange: Analog / Digital Input +	0~10V

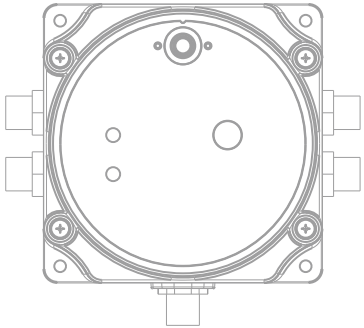
Votage Sensor

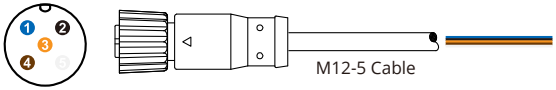
4-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❷ Black: Vout -	Sensor DC -
❸ Orange: Analog / Digital Input +	0~10V Diff +
❹ Bwron: Analog / Digital Input -	Ground / Diff -

Votage Sensor

Connect the Digital Signal Input (High / Low Signal or PWM)



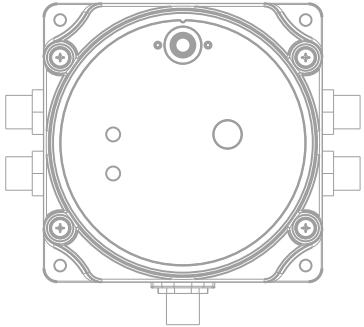


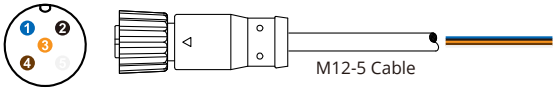
2-Wire Sensor

❷ Black: Vout -	Digital Signal
❸ Orange: Analog / Digital Input +	Ground / Diff -

Door Detect

Connect the PT-100 / RTD Sensor





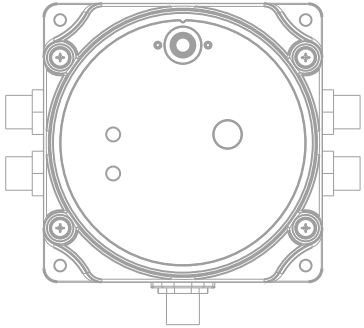
2-Wire Sensor

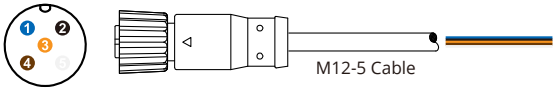
❸ Orange: Analog / Digital Input +	Resister Value	PT-100 Sensor
❹ Bwron: Analog / Digital Input -	Resister Value	

3-Wire Sensor

❷ Black: Vout -	Sensor DC -	PT-100 Sensor
❸ Orange: Analog / Digital Input +	Resister Value	
❹ Bwron: Analog / Digital Input -	Resister Value	

Connect the Frequency Counter





2-Wire Sensor

❸ Orange: Analog / Digital Input +	Frequency Signal
❹ Bwron: Analog / Digital Input -	Sensor DC -

Frequency Output Sensor

3-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❷ Black: Vout -	Sensor DC -
❸ Orange: Analog / Digital Input +	Frequency Signal

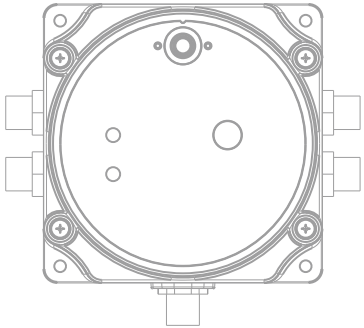
Frequency Output Sensor

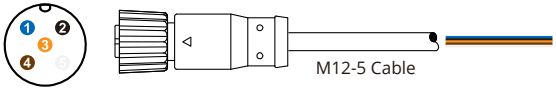
4-Wire Sensor

❶ Blue: Vout +	Sensor DC +
❷ Black: Vout -	Sensor DC -
❸ Orange: Analog / Digital Input +	Frequency Signal Diff +
❹ Bwron: Analog / Digital Input -	Diff -

Frequency Output Sensor

Connect the Pulse Count / Rain Gauge (Need Special Wire / Only for Port4)



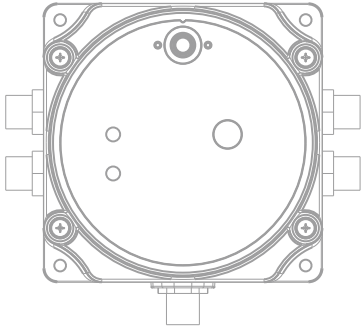


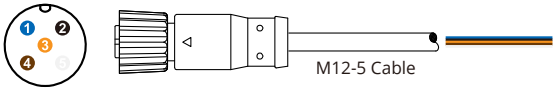
2-Wire Sensor

❸ Orange: Pulse Count Input	Pulse Signal
❹ Bwron: Pulse Count Input	Pulse Signal

Rain Gauge

Connect the Analog / Digital / PWM Output





Analog Output

❷ Black: Vout -	Sensor DC-	Driver / Controllor
❺ Analog / Digital Output	Analog Signal *1	

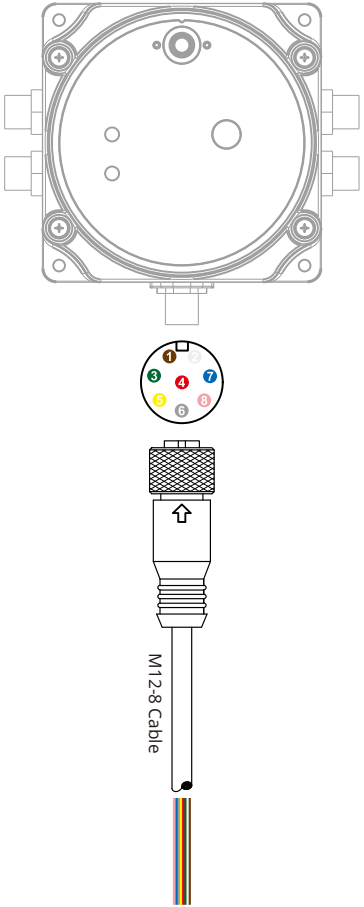
Analog Output

❶ Blue: Vout +	Sensor DC+	Driver / Controllor
❷ Black: Vout -	Sensor DC-	
❷ White: Vin -	Digital / PWM *2	

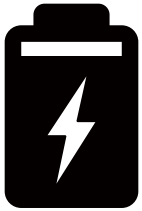
*1 Analog Output is Sink Mode

*2 Analog Output is Open Drain Mode

External Battery Installation (WW-5H20)



❸ Green: Battery Input+	Battery VCC
❹ Red: Battery Input-	Battery Ground
❼ Blue: Battery NTC	Battery NTC



3.7~42V
Battery Packs

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