

General

- **Power Input** **WISE-4610P**
Built-in 4100mAh Lithium rechargeable battery pack
10~50V_{DC} external power
17~50V_{DC} Solar Panel
- **Battery Life** **WISE-4610**
10~50V_{DC} external power
6 months (1 hour data update and 1 day GPS update)
- **Configuration Interface** Micro-B USB
- **LED Indicator** Status, Error, Tx, Rx, Battery/Signal Level
- **Mounting** DIN 35 rail, wall, pole, and stack
- **Dimension (W x H x D)** 82 x 122 x 49 mm (without antenna)

Operating Temperature

- **With rechargeable battery** 0 ~ 60 °C (32 ~ 140 °F)
- **Without battery** -25 ~ 70 °C (-13 ~ 158 °F)

Storage Temperature

- **With rechargeable battery** -20 ~ 60 °C (-4 ~ 140 °F)
- **Without battery** -40 ~ 85 °C (-40 ~ 185 °F)
- **Operating Humidity** 5 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)

WISE-S614 (4AI/4DI)

Analog Input

- **Channels** 4
- **Resolution** 16-bit
- **Sampling Rate** 1Hz per channel
- **Accuracy** ±0.1% of FSR (Voltage)
±0.2% of FSR (Current)
- **Input Range** ±150mV, ±500mV, ±1 V, ±5V, ±10V, 0 ~ 150mV,
0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 20mA,
4 ~ 20mA, ±20mA
- **Input Impedance** > 2M Ω (Voltage)
240 Ω (External resistor for current)
- **Isolation Voltage** 2000 V_{DC}
- **Common Mode Voltage** 350 V_{DC}
- **Drift** Unipolar ±100ppm
Bipolar ±50ppm
- **Burn-out Detection** Yes (4~20mA only)
- **Supports Data Scaling and Averaging**

Digital Input

- **Channels** 4
- **Input Type** Dry Contact (Wet Contact by request)
- **Logic Level** 0: Open
1: Close to DI COM
- **Supports 200Hz Counter Input (32-bit + 1-bit overflow)**
- **Keep/Discard Counter Value when Power-off**
- **Supports Inverted DI Status**

WISE-S615 (4 RTD)

Analog Input

- **Channels** 4 differential
- **Input Connections** 2, 3-wire
- **Input Impedance** 10 MΩ
- **Resolution** 15 bits
- **Sampling Rate** 1 Sample/s (MAX)

RTD Types and Temperature Ranges

- **Pt 100 RTD**
RTD 100 (a = 0.00385) -200°C to 600°C
RTD 100 (a = 0.00392) -200°C to 600°C
- **Pt 1000 RTD**
Pt -40°C to 160°C
±0.1% FSR
- **Accuracy** 90 dB
- **CMR @ 50/60 Hz** 60 dB
- **NMR @ 50/60 Hz** ± 100 ppm/°C
- **Span Drift**

WISE-S617 (2AI/2DI/1DO/1RS-485)

Digital Input

- **Channel** 2
- **Logic Level (Dry Contact)** 0: Open
1: Close to DI COM
- **Non-isolation**
- **Supports 32-bit counter input function (maximum signal frequency: 200 Hz)**
- **Supports keep/discard counter value when power OFF**
- **Supports frequency input function (maximum signal frequency: 200 Hz)**
- **Supports inverted digital input status**

Analog Input

- **Channels** 2
- **Resolution** 16 bit
- **Sampling Rate** 1 Hz per channel
- **Accuracy** ±0.1% of FSR (Voltage)
±0.2% of FSR (Current)
- **Input Range** ±1 V, ±5V, ±10V, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 20mA,
4 ~ 20mA, ±20mA
- **Input Impedance** > 2M Ω (Voltage)
120 Ω (External Resistor for Current)
- **Isolation Voltage** 2000 V_{RMS}
- **Common Mode Voltage** 350 V_{DC}
- **Drift** Unipolar ±100ppm
Bipolar ±50ppm
- **Burn-Out Detection** Yes (4 ~ 20mA only)
- **Supports data scaling and averaging**

Digital Output

- **Channel** 1 (Sink Type)
- **Non-isolation**
- **Output Current** 100mA

COM Port

- **Port Type** RS-485
- **Baud Rate (bps)** 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
- **Data Bits** 7, 8
- **Stop Bits** 1, 2
- **Parity** None, Odd, Even
- **Flow Control** Auto flow control
- **Signals** DATA+ and DATA-
- **Protection** 15 kV ESD
- **Supported Protocols** Modbus/RTU (Up to 32 addresses with a maximum of 8 instructions)

WISE-S672 (6DI/1RS-485/1RS-485 or RS-232)

COM Port

- Port Number 2
- Type COM1: RS-485
COM1: RS-485/232
- Serial Signal RS-485: DATA+, DATA-
RS-232: Tx, Rx, GND
- Data Bits 7, 8
- Stop Bits 1, 2
- Parity None, Odd, Even
- Baud Rate (bps) 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
- Protection 15 kV ESD
- Protocol Modbus/RTU (Total 32 address)

Digital Input

- Channels 6
- Input Type Dry Contact
- Logic Level 0: Open
1: Close to DI COM
- Supports 200Hz Counter Input (32-bit + 1-bit overflow)
- Keep/Discard Counter Value when Power-off
- Supports Inverted DI Status

Ordering Information

WISE-4610 Advanced Industrial LoRaWAN Module

- WISE-4610-NA Advanced Industrial LoRaWAN Module - NA915

Firmware Image (Optional)

96634610J00	WISE-4610 JA Patch
96634610T00	WISE-4610 TA AS923 Patch
96634610Z00	WISE-4610 ZA Patch

- WISE-4610-EA Advanced Industrial LoRaWAN Module - EU868
- WISE-4610P-NA Advanced Industrial LoRaWAN I/O Module w/ GPS & battery - NA915

Firmware Image (Optional)

96634610J00	WISE-4610 JA Patch
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96634610Z00	WISE-4610 ZA Patch

- WISE-4610P-EA Advanced Industrial LoRaWAN I/O Module w/ GPS & battery - EU868

WISE-S600 IP65 I/O Module with M12 Connectors

- WISE-S614-A 4AI/4DI
- WISE-S615-A 4RTD
- WISE-S617-A 2AI/2DI/1DO/1RS-485 w/ 2ch 12V_{DC} power output
- WISE-S672-A 6DI/1RS-485/1RS-485 or RS-232

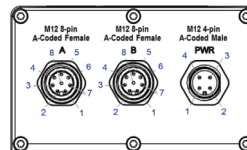
WISE-S600T I/O Module with Terminal Block

- WISE-S614T-A 4AI/4DI
- WISE-S615T-A 4RTD
- WISE-S617T-A 2AI/2DI/1DO/1RS-485 w/ 2ch 12V_{DC} power output

Accessories

- 1654011516-01 M12, A-code, 8 Pin, Male
- 1655005903-01 M12, A-code, 4 Pin, Female
- 1700028162-01 M12, A-code, 4 pin, Female with 1M cable
- 1700028163-01 M12, A-code, 8 Pin, Male with 1M cable
- PWR-242-AE DIN Rail Power Supply (2.1A Output Current)
- PWR-244-AE Panel Mount Power Supply (4.2A Output Current)

Pin Assignment



Model Name	M12 Cable	WISE-S614	WISE-S615	WISE-S617	WISE-S672	
Pin Number						
P/N	4Pin : 1700028162-01 8Pin : 1700028163-01	WISE-S614-A	WISE-S615-A	WISE-S617-A	WISE-S672-A	
A	1	White	DI0	RTD0+	AI0+	DI0
	2	Brown	DI1	RTD0-	AI0-	DI1
	3	Green	DI2	RTD0 COM	+12V Out0	DI2
	4	Yellow	DI3	NC	+12V Out GND	DI3
	5	Gray	NC	RTD1+	AI1+	DI4
	6	Pink	NC	RTD1-	AI1-	DI5
	7	Blue	NC	RTD1 COM	+12V Out1	NC
	8	Red	DI COM	NC	+12V Out GND	DI COM
B	1	White	AI0+	RTD2+	DI0	RS-485 D1-
	2	Brown	AI0-	RTD2-	DI1	RS-485 D1+
	3	Green	AI1+	RTD2 COM	DI COM	RS-232 TX
	4	Yellow	AI1-	NC	DO0	RS-232 RX
	5	Gray	AI2+	RTD3+	DO GND	RS-485 D2-
	6	Pink	AI2-	RTD3-	RS-485 D+	RS-485 D2+
	7	Blue	AI3+	RTD3 COM	RS-485 D-	NC
	8	Red	AI3-	NC	RS-485 GND	RS-232 GND
PWR	1	Brown	+VS	+VS	+VS	+VS
	2	White	-VS	-VS	-VS	-VS/ SP-
	3	Blue	SP+	SP+	SP+	SP+
	4	Black	SP-	SP-	SP-	NC

Dimensions

Unit: mm

