FineLink AI Operation Manual

PRODUCT INTRODUCTION

Connect instrument through RS-485 (wire) or ZigBee/Lora/4G/NBIOT (wireless). There are 4 Analog Input on the instrument. Also, Analog Input has separation fence to protect internal components, to avoid system crush down. Available to expend more FineLink to achieve needs.

FEATURE

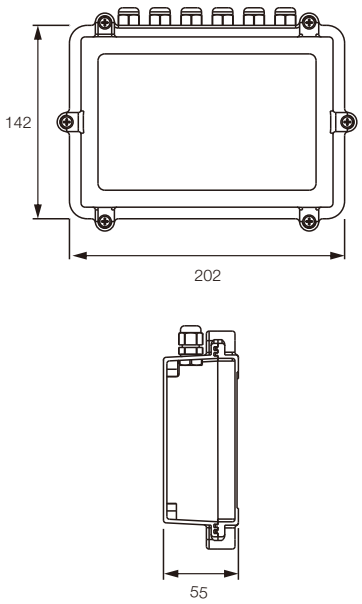
- Easier to maintain.
- Available to expend more instruments, connect more Analog Input equipment.
- Independent connection port on each equipment
- Can connect to ZigBee/Lora/4G/NBIOT wireless equipment, no need to worry about the maintain and wastage on wire.

SPECIFICATION

Communication interface	RS-485/ZigBee/Lora/ 4G/NBIOT
Sensor interface	0~10V/0~5V/4~20mA/ Loop power
Voltage input	±0.01V F.S
Current input	±0.01mA F.S
RS-485 baud rate	9600/19200/38400/57600/ 115200
Ambient temp.	-40~80°C
Process temp.	-40~80°C (Wireless-40~70°C)
Electrostatic protection	IEC61000-4-2 ESD 8kV Air, 4kV contact (Wireless ESD 4kV Air, 2kV contact)
Dimension	220 x 160 x 55
Input power supply	10V~30V
IP rating	IP67
Consumption	600 mA

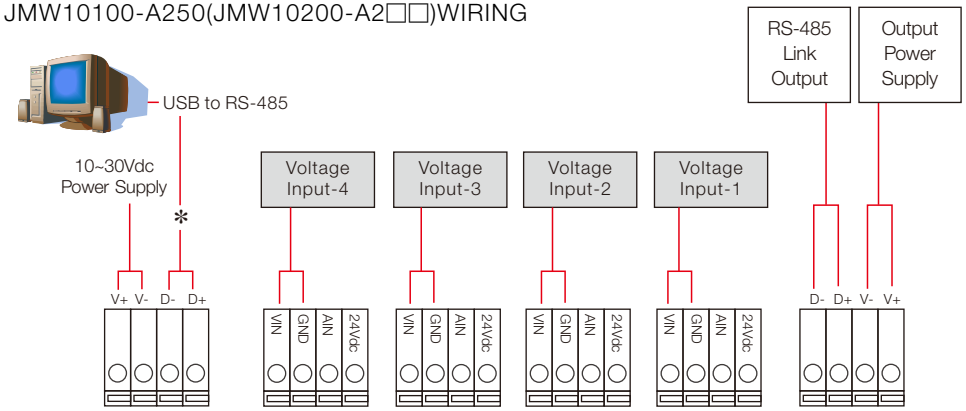
DIMENSION

(Unit:mm)

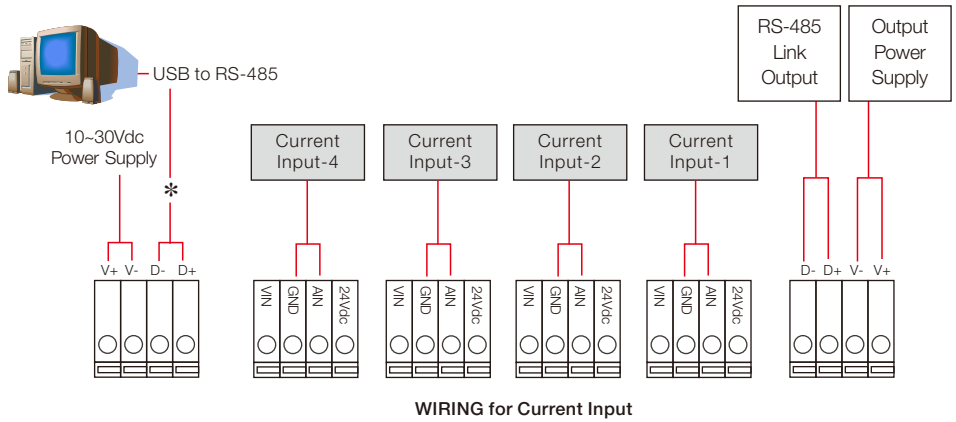


WIRING

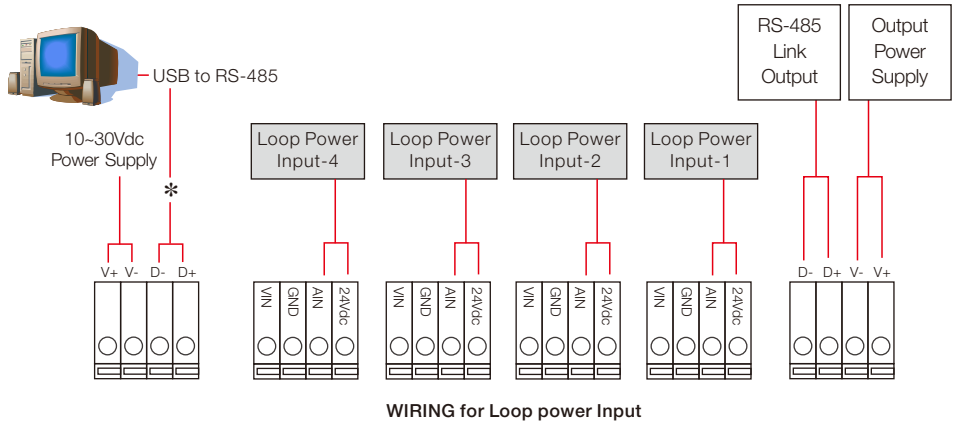
JMW10100-A250(JMW10200-A2□□)WIRING



Wiring For Voltage Input



WIRING for Current Input



WIRING for Loop power Input

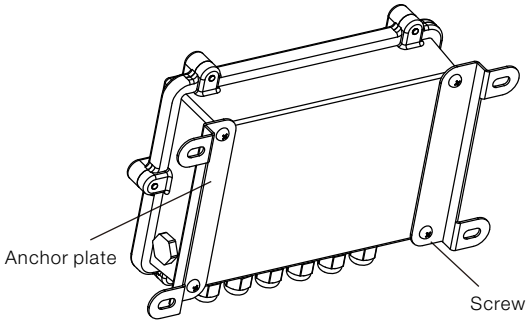
Remark1: For wireless, no need to connect the wire with * , as RS-485 signal will be transferred through wireless

MODBUS COMMUNICATION ADDRESS LIST

Variable Name	ADDRESS		Data Type	Note
	HEX	DEC		
PFC_DISPLAY_DIGITAL_CH1	0x1020	4128	FLOAT	CH1 Value
PFC_DISPLAY_DIGITAL_CH2	0x1022	4130	FLOAT	CH2 Value
PFC_DISPLAY_DIGITAL_CH3	0x1024	4132	FLOAT	CH3 Value
PFC_DISPLAY_DIGITAL_CH4	0x1026	4134	FLOAT	CH4 Value
PFC_CURRENT_VALUE_CH1	0x1028	4136	UINT16	CH1 ADC Value
PFC_CURRENT_VALUE_CH2	0x1029	4137	UINT16	CH2 ADC Value
PFC_CURRENT_VALUE_CH3	0x102a	4138	UINT16	CH3 ADC Value
PFC_CURRENT_VALUE_CH4	0x102b	4139	UINT16	CH4 ADC Value
PFC_MODBUS_BAUDRATE	0x102c	4140	UINT16	BAUDRATE
PFC_MEASURE_TYPE_CH1	0x102f	4143	UINT16	Measuring Type Voltage: 0: 0~5V 1: 0~10V Current: 2: 4~20mA 3: Loop power
PFC_MEASURE_TYPE_CH2	0x1032	4146	UINT16	
PFC_MEASURE_TYPE_CH3	0x1035	4149	UINT16	
PFC_MEASURE_TYPE_CH4	0x1038	4152	UINT16	
PFC_SAVE_CALIBRATION_SETTING	0x1098	4248	UINT16	Save
PFC_SAVE_SYSTEM_VAR_TO_EEPROM	0x1099	4249	UINT16	Save

INSTALLATION PRECAUTIONS

(1) Make sure the wiring is correct
(2) Check the power supply , RS 485 positive and negative
(3) If communication failure, please check connection setting (COM port, ID, baud rate) are correct
(4) ID is in hexadecimal (base 16), must change to decimal
(5) When expanding equipment, each equipment requests different ID.
(6) Suggest to add anchor plate to fix body.



SETTING ID

Open the cover of AI, setting ID through knob (hexadecimal)
As photo: turn left knob to 0 & right knob to 1, setting as 01
If turn left knob to 1 & right knob to B, setting as 27
Please refer to below chart.

16 Hex	10 Dec	16 Hex	10 Dec
01	1	1B	27
02	2	1C	28
03	3	1D	29
04	4	1E	30
05	5	1F	31
06	6	20	32
07	7	21	33
08	8	22	34
09	9	23	35
0A	10	24	36
0B	11	25	37
0C	12	26	38
0D	13	27	39
0E	14	28	40
0F	15	29	41
10	16	2A	42
11	17	2B	43
12	18	2C	44
13	19	2D	45
14	20	2E	46
15	21	2F	47
16	22	30	48
17	23	31	49
18	24	32	50
19	25	33	51
1A	26	34	52

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