

# FineLink I/O 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 crash down. Available to expend more FineLink to achieve needs.

## FEATURE

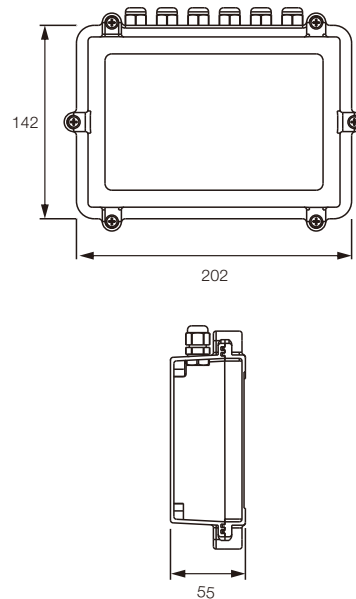
- Easier to maintain.
- Available to expend more instruments, connect more Analog Input equipment.
- Independent connection port on each equipment
- Can connect to ZigBee/Lora/4G/NBIOT wireless equipment, no need to worry about the maintain and wastage on wire.

## SPECIFICATION

Communication Interface	RS-485/ZigBee/Lora/4G/NBIOT
Sensor Interface	Input Port *4 Output Port *4
Input port	Logic level Low: 1V max Logic level high: 3~30 Vdc
Output port	Open Collector to 30 Vdc 30mA max. load
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

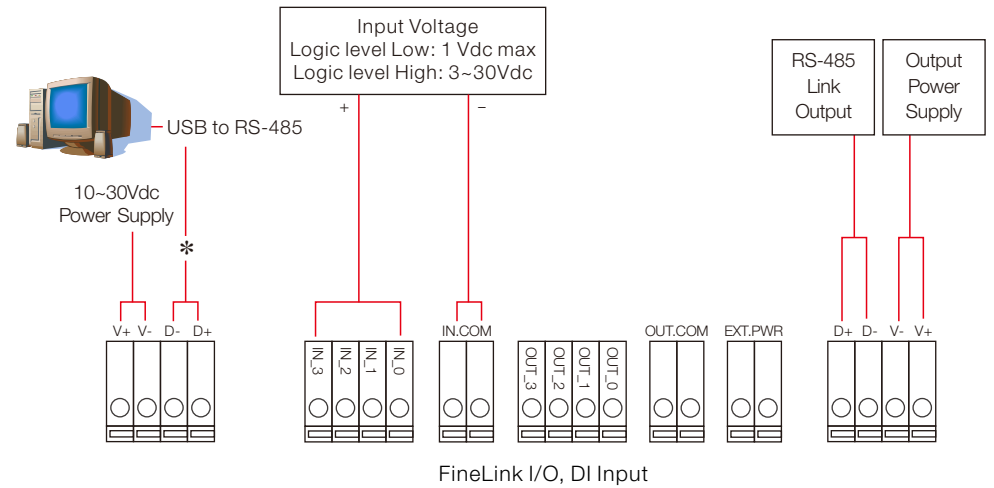
## DIMENSION

(Unit:mm)

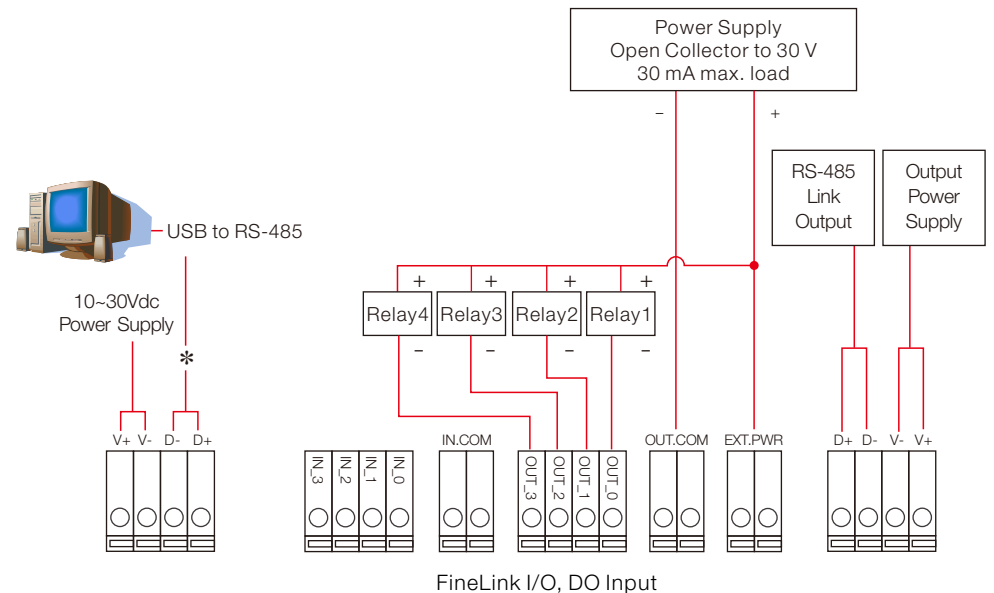


## WIRING

JMW10100-A350(JMW10200-A3□□) WIRING for DI



JMW10100-A350(JMW10200-A3□□) WIRING for DO



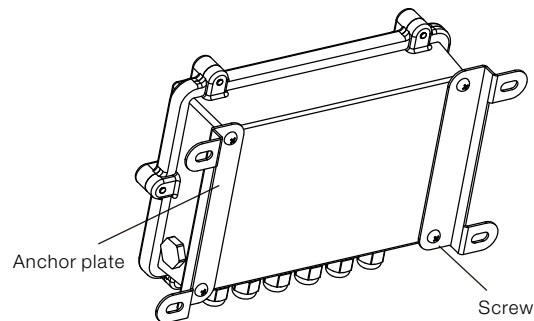
Remark1: For wireless, no need to connect the wire with \* , as RS-485 signal will be transferred through wireless  
Remark2: DI/DO can be used together, 4 sets each

## MODBUS COMMUNICATION ADDRESS LIST

Variable Name	ADDRESS		Data Type	Unit	Authority	Note
	HEX	DEC				
PFC_IO_IN_1_VARS	0x1020	4128	UINT16	N/A	R	IO-1 IN Detect
PFC_IO_IN_2_VARS	0x1021	4129	UINT16	N/A	R	IO-2 IN Detect
PFC_IO_IN_3_VARS	0x1022	4130	UINT16	N/A	R	IO-3 IN Detect
PFC_IO_IN_4_VARS	0x1023	4131	UINT16	N/A	R	IO-4 IN Detect
PFC_MODBUS_BAUDRATE-High	0x1024	4132	UINT32	BPS	R/W	MODBUS Communication/ BaudRate
PFC_MODBUS_BAUDRATE-Low	0x1025	4133			R/W	
PFC_IO_OUT_1_VARS	0x1026	4134	UINT16	N/A	R/W	IO-1 OUT Control
PFC_IO_OUT_2_VARS	0x1027	4135	UINT16	N/A	R/W	IO-2 OUT Control
PFC_IO_OUT_3_VARS	0x1028	4136	UINT16	N/A	R/W	IO-3 OUT Control
PFC_IO_OUT_4_VARS	0x1029	4137	UINT16	N/A	R/W	IO-4 OUT Control

## 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 I/O, 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

