

iWSN-1121-DI Quick Start

v1.30, May 2019

What's in the box

Without "Quick Start", The package includes the following items:





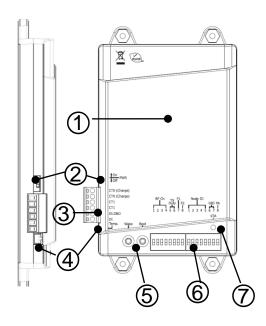


iWSN-1121 Series Module

Split-core CT Screw Driver x 2 (1C016)

Module Name	Split-core CT	Module Name	Split-core CT		
iWSN-1121-DI-160	8m, Ф16mm (100A), 1 pcs	iWSN-1121-DI-360	8m, Ф36mm (400A), 1 pcs		
iWSN-1121-DI-240	8m, Ф24mm (200A), 1 pcs	-	-		

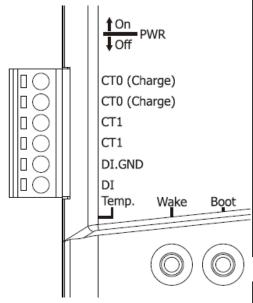
1 Appearance



Pin	Instructions				
1	Built-in PCB antenna				
2	DIP switch of power				
3	CT/DI connector				
4	Thermistor interface				
5	Boot and wake button				
6	DIP switch of				
0	parameter setting				
7	LED indicator				

2 Wire and Buttons

Switch	Introductions					
DWD	ON	Power on				
PWR	OFF	Power off				

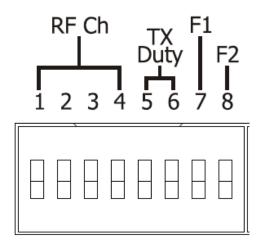


Pin	Name	Introductions					
6	CT0(Charge)	Split-core CT pin, no					
5	CT0(Charge)	directionality, support measuring and charging function					
4	CT1	Split-core CT pin, no					
3	CT1	directionality, only measuring function					
2	DI.GND	DI connect pin					
1	DI	DI connect pin					

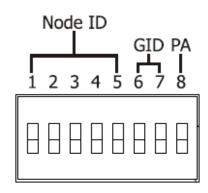
Interface	Introductions				
Temp.	Thermistor Interface				

Button	Introductions			
Wake	Manually wake up			
Boot	After press 1~3 seconds, the LED light will be on for 1 second and then extinguished. At this time, the boot is completed.			

3 Communication Parameter



Name	Instructions						
F2	Reserved						
F1			11000	, i v C G			
TX Duty (RF transmit		Period	Pin 5 6				
duty)		1 sec	5				
		10 sec					
■: ON		30 sec					
☐: OFF		60 sec					
RF Ch (RF Channel) ■: ON □: OFF	Ch 0 1 2 3 4 5 6 7	Pin 1 2 3	3 4	Ch 8 9 A B C D E	Pin 1 2 3	4	



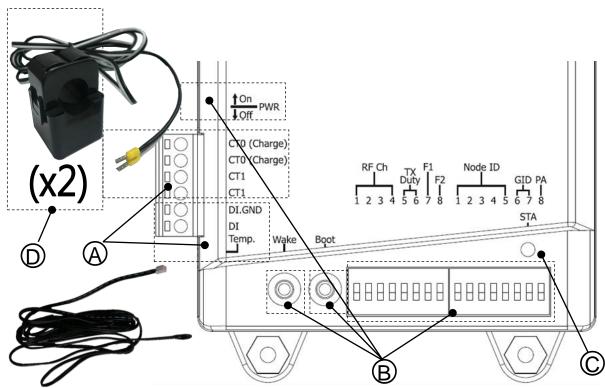
Name	Instructions										
PA		Factory Only									
GID		Group			Pin						
(Group ID)		Gi	oup		6		7				
(3.54)		-	0								
■: ON			1								
☐: OFF			2		<u>L</u>						
		,	3								
	Node		Pin			Node		Pin			
		2	3	4	5		1	2	3	4	5
	0 L	▋		<u> </u>		16 17					
	2	■ 				18					
	3			$\frac{\square}{\square}$		19			H	H	
	4 [20					
Node ID	5					21					
	6					22					
■: ON	7					23					
☐: OFF	8					24					
	9					25					
	10					26					
	11					27					
	12					28					
	13					29					
	14					30					
	15					31					

4 LED Indicator

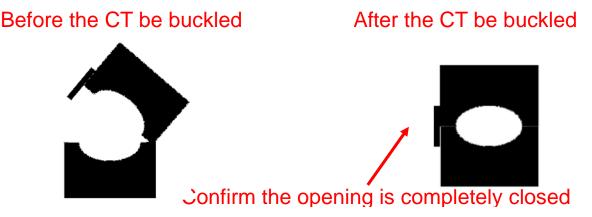
Module provide a LED indicator. The table below will explain the LED status indicator.

Indicators	Status	Instructions
	Blink continuous	Illegal Node ID, please set the Node ID to 1~31, and then power on.
STA	Blink once	 Low battery power. Please confirm whether the CT is lock into the "CT" pin of the module and bucked to the wire for charging. If have any questions, please contact technology support.
	Blink twice	Component status is abnormal. 1. Reconnect and re-power the unit 2. If have any questions, please contact technology support.
	Blink three times	Unable to confirm sensor type. 1. Reconnect and re-power the unit 2. If have any questions, please contact technology support.

5 Boot steps



- A. Please confirm the CT is locked into the module, and "DI and Temp." is connected DI device and Thermistor. (If there is no DI device or Thermistor, the "DI and Temp." don't be connected.)
- B. Adjusting DIP switch, set the parameter of communication and switch "PWR" to OFF. And then switch "PWR" to ON after press "Wake" and "Boot" buttons for 5 seconds.
- C. When power on, if "STA" will light on for 1 second and off, this mean boot complete. If "STA" do not be lighted, please press "Boot" for 1~3 seconds, and confirm "STA" will light on for 1 second and off. Finally, press "Wake" once, confirm "STA" blink once, and then let CT bucked to the wire for charging.
- D. Connect the CT to the cable to be measured. The buckle has no directionality, but after the buckle, you must confirm that the opening is completely closed.

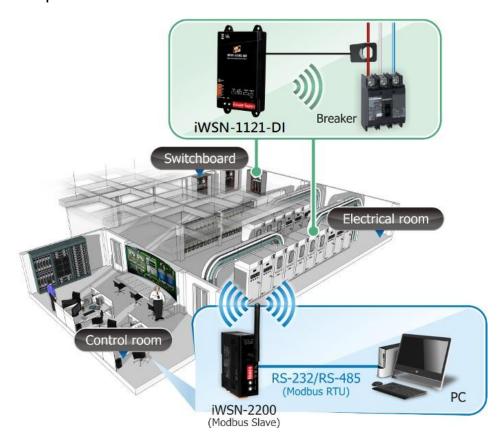


Note:

- 1. if you need to remove the terminal lines, always detach the CT before removing the CT terminal lines. Otherwise the CT may develop open-circuit secondary voltages which may be hazardous to personnel or damaging to the CT or equipment connected in the secondary circuit.
- 2. The external CT's are fragile, please handle with care.
- 3. The current input of the iWSN-1121-DI series only supports the factory-attached CT.
- 4. To install CT's correctly, please ensure the CT lines sequences is right before clip the CT's onto the power cable of the monitoring equipment.
- 5. Please select the appropriate size CT for different size monitoring equipment cables: power line diameter <Φ24 using 200A CT, Φ36 using 400A CT.
- 6. The maximum current value cannot exceed the CT rating.

6 Application example

The module will measure the current data and transmit automatically to iWSN-2200 by wireless. The user can use computer to read the data in iWSN-2200 by Modbus RTU protocol.





Warning

ICP DAS assumes no liability for any damage resulting from the use of this product. ICP DAS reserves the right to change this manual at any time without notice. The information furnished by ICP DAS is believed to be accurate and reliable. However, no responsibility is assumed by ICP DAS for its use, not for any infringements of patents or other rights of third parties resulting from its use.

Limitation of Warranty

This warranty does not apply to defects resulting from unauthorized modification, misuse, or use for reason other than electrical power monitoring. The supplied meter is not a user-serviceable product.

Product Warranty & Customer Support

ICP DAS warrants all products free from defects in material and workmanship for a period of one year from the date of shipping. During the warranty period, we will, at our position, either repair or replace any product that proves to be defective. To report any defect, please contact us. Please have the model, serial number and a detailed problem description available when you call. If the problem concerns a particular reading, please have all meter readings available. When returning any merchandise to ICP DAS, a return SN. Is required.