

### **Packing List**

In addition to this guide, the package includes the following items:







iWSN-1310 Series Module Split-core CT x 3

Screw Driver (1C016)

Module Name	Split-core CT	Module Name	Split-core CT
iWSN-1310-PCT-ME	Without CT	iWSN-1310-240-ME	8m, Ф24mm (200A), 3 pcs
iWSN-1310-160-ME	8m, Ф16mm (100A), 3 pcs	iWSN-1310-360-ME	8m, Ф36mm (400A), 3 pcs

#### Resources

### **Technical Support**

service@icpdas.com www.icpdas.com How to search for drivers, manuals and spec

information on ICP DAS website.

For Mobile Web



• For Desktop Web





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.

#### **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. When returning any merchandise to ICP DAS, a return SN. Is required.

### **1** Appearance



Number	Instructions
1	Build in PCB antenna
2	DIP switch of power
3	CT connector
4	Thermistor interface
5	Boot and wake button
6	DIP switch of parameter setting
7	LED indicator

## **2** Wire and Buttons

Switch	Instructions								
PWR	ON	Power on							
	OFF	Power off							

		Pin	Name	Instructions
			CT0(Charge	) Split-core CT pin, no directionality, support
↑ On	5	CT0(Charge	) measuring and charging function	
	↓ Off PWR	4	CT1	
CT0 (Charge)       CT1       CT1       CT1       CT2       CT2	CT0 (Charge) CT1	3	CT1	Split-core CT pin, no
	CT2 CT2 CT2	2	CT2	measuring function
	Temp. Wake Boot	1	CT2	
		Inte	rface	Instructions

Internate	
Temp.	Thermistor Interface

Button	Instructions
Wake	Manual 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 F1					Rese	eserved						
TX Duty ( RF transmit duty )	Pe		Period -		ļ	in 6						
	-	1 s 10	sec sec		]					-		
■ : ON □ : OFF	30 se		sec		[							
	L			•					•	<u>,</u>		
RF Ch	Ch	1	Р 2	in 3	4	Ch	1	Р 2	in 3	4		
(RE Channel)	0					8						
	1					9						
	2					Α						
■: ON	3					В						
□: OFF	4					C						
	5					D						
	6					E						
	7					F						



Name	Instructions												
PA	Factory Only												
GID					Pin								
(Group ID)			Gr	oup		6		7					
				0									
■: ON				1									
				2									
				3									
	Node		-	Pin		-	Node	Pi			in		
	Noue	1	2	3	4	5	Noue	1	2	3	4	5	_
	0						16						_
	1						17						_
	2						18						_
	3						19						_
Node ID	4						20						
	5						21						
	6						22						
■ : ON	7						23						
	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	<ol> <li>Low battery power.</li> <li>Please confirm whether the CT is lock into the "CT" pin of the module and bucked to the wire for charging.</li> <li>If have any questions, please contact technology support.</li> </ol>
	Blink twice	<ol> <li>Component status is abnormal.</li> <li>Reconnect and re-power the unit.</li> <li>If have any questions, please contact technology support.</li> </ol>
	Blink three times	<ul><li>Unable to confirm sensor type.</li><li>1. Reconnect and re-power the unit.</li><li>2. If have any questions, please contact technology support.</li></ul>

## 5 Boot Steps



- A. Please confirm the CT is locked into the module, and "Temp." is connected Thermistor. (If there is no Thermistor, the "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-1310 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.