



SMD100-F

Smart Data Collector

Quick Guide

Issue :02.001-001
Date :2025-12

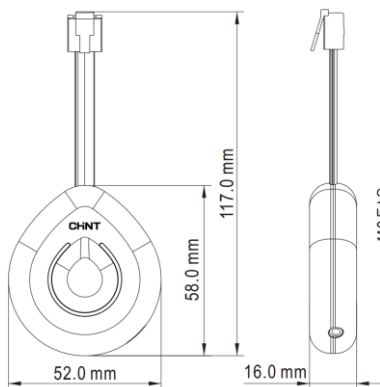


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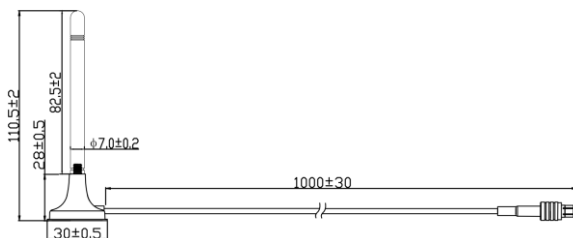
1 Overview

1.1 Models

Type	Width(18 mm module in Din rail mounting)	Dimension (L*W*H)/mm	Net weight/g
SMD100-F-02	2.5	117×52×16	Approx. 25.1



Smart Data Collector



Antenna

NOTE Unmarked tolerance is ± 1 mm;
The appearance, dimensions information please refer to the actual product received.

1.2 Labeling information for front and back sides



Front Side:
LoGo



Back Side:
Product specific model,
QR code and other
information (the image
is for reference only,
the actual model,
interface, and other
information are based
on the physical object)

Serial number	Display interface	description
Wireless parameters	Working frequency	2.4GHz - 2.4835GHz
	Output power	20dBm
	Antenna Options	external antenna
Hardware parameters	Working Voltage	4.9V-5.5V
	V _(max)	5.5V
	Maximum Working Power	1.25W
	LED Indicator	RGB LED
	Communication Interface	P1
	Power Interface	TYPE_C
Software parameters	Number of Connected Energy Meters	1
	Serial Port Communication Rate	115200 8n1
	Sampling Interval	1s/10s
	Uplink Protocol	HTTP、TCP/IP
	Downlink Protocol	DSMR 5.0 P1

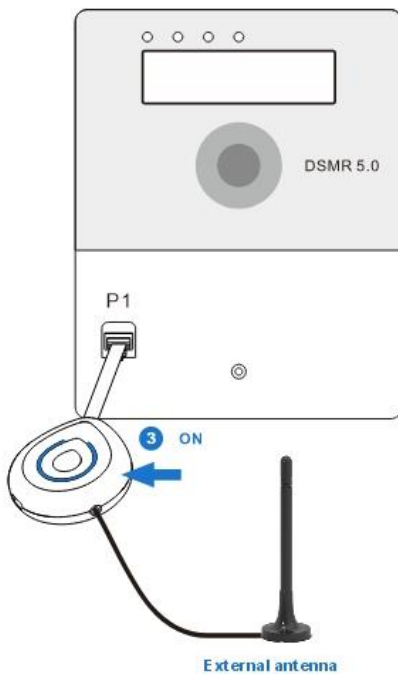
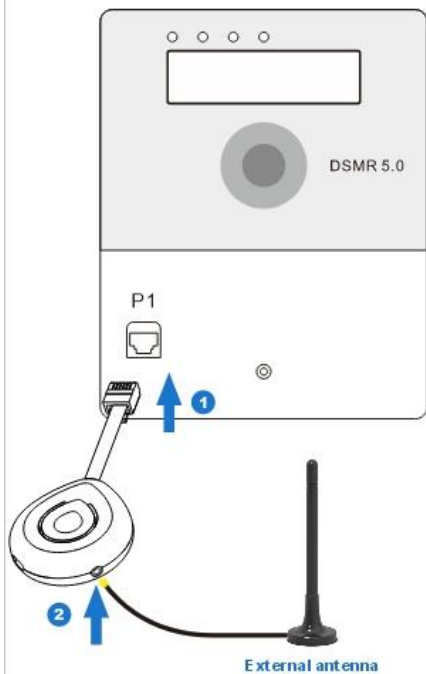
2 Installation

2.1 Use DSMR 5.0 Smart Meter

1. Plug the Smart Data Collector into P1 port on your smart meter.
2. Connect the antenna of the Smart Data Collector
3. The Smart Data Collector will be directly powered by the smart meter. Checking whether the Smart Data Collector indicator light is on can determine if it is successfully powered.

NOTE

The P1 port position may vary between different meters, but it is generally marked with 'P1'

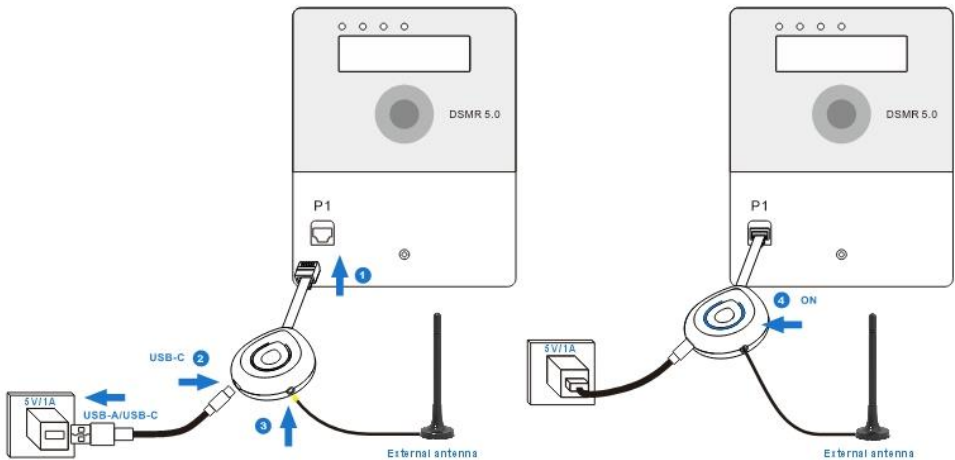


2.2 Use DSMR 4.0 Smart Meter

1. Plug the Smart Data Collector into P1 port on your smart meter.
2. Connect the Smart Data Collector using a USB-C to USB-A cable and a USB-A power adapter (5V/1A), and power it through an electrical outlet.
3. Connect the antenna of the Smart Data Collector.
4. Checking whether the Smart Data Collector indicator light is on can determine if it is successfully powered.

NOTE

The P1 port position may vary between different meters, but it is generally marked with 'P1'



3 LED status

LED type	Explanation	LED status	Status description
Cyan LED	Indicate the Connection Status between the Smart Data Collector and the Inverter	Solid	Power on
		Fading	Data Successfully Read
Blue LED	Wi-Fi Connectivity Status Indication	Solid	Wi-Fi Connected
		Flash	300ms on, 300ms off - for device provisioning
Yellow LED	Wi-Fi Connectivity Status Indication	Solid	Wi-Fi Disconnected
RED LED	Fault Indication	Solid	Failure to read P1 data within 1 minute after Wi-Fi connection is established

CAUTION

Normal Operating Status of the Data Acquisition Terminal:

After power-on: Cyan LED is solid.

Upon successful Wi-Fi connection: Green LED turns solid.

After successful data retrieval: Cyan LED switches to a breathing pattern.

NOTE

Please ensure the data collector is fully operational before leaving the site. If any abnormal conditions are detected, do not leave the site and contact customer support immediately. Please be prepared to provide the following information:

1. Smart Data Collector Model and Serial Number
2. Connected Meter Model

4 Operating Instructions

4.1 Data Collection

1. Upon successful network configuration, the device advertises itself via mDNS using its Serial Number (SN) as the broadcast name, allowing its IP address to be discovered.
2. Meter reading data is accessible via `http://IP/rpc/ZT.GetStatus`

5 Diagnosis , analysis and elimination for common faults

Fault phenomenon	Reason analysis	Elimination
All indicators show no response upon power-up.	1. Power Failure 2. Indicator light damaged	1. Verify the ribbon cable is properly connected. 2. If the connection is a DSMR 4.0 meter, an adapter must be used for power, and the socket should be checked for voltage
Abnormal/No Data in HTTP Meter Reading	Abnormal Data Acquisition by Collector	1. Check Collector & WiFi Connection 2. Verify the ribbon cable is properly connected.

6 Warranty and Service

The manufacturer implements three guarantees for product quality. Within 18 months from the date of delivery, if the user fully complies with the provisions of this manual and the factory seal is still intact, the instrument is found damaged during use, and the company is responsible for free repair or replacement.

7 Environmental

Dear customer:

Please help us do one thing, when this product at the end of its life, in order to protect our environment, please do a good job of recycling the product or its parts and materials. Please also dispose of materials that cannot be recycled. Thank you very much for your cooperation and support.

8 Statement

1. The products, services or features purchased by you are subject to the commercial contracts and terms signed with the Company, and all or part of the products, services or features described in this manual may not be included in the products purchased by you.
2. Except as otherwise agreed in the contract, the Company makes no representations or warranties, express or implied, about the contents of this specification.
3. The information in this brochure is subject to change without prior notice.
4. The Company shall not be liable for indirect losses arising from the provision, display or use of this material.

9 Authentication information

EU Conformity Statement



This product is marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Radio Equipment Directive 2014/53/EU.

RF Exposure Information

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with anyother antenna or transmitter.

10 Manufacturer Information

Manufacturer	Zhejiang Chint IoT Technology Co.,Ltd.
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