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Three-Phase Meter (DIN-Rail)

Product Model:

DTSD422-D-100



Introduction

Three-Phase Meter (DTSD422-D) is applied for energy management purpose, and it works to measure and control electricity consumption of PV system, power system, construction industry, communication industry and etc,. It is mainly used in measuring and displaying three-phase voltage, three-phase current, active/reactive power, frequency, power factor, active energy data and etc,.

RS485 com interface can realize the networking with data logger.

Standard 35mm DIN-Rail mount features in compact size and easy to install.

DDS122-D can be widely used in power monitoring in enterprise, PV plant, hotel, school and government organization.

Feature

- 1.Two-way measuring for consumption&production data
- 2.Used for single/Three-phase circuit
- 3.Standard 35mmDIN-Rail, width: 36mm, easy to install
- 4.Open-type CT design
- 5.Two way RS485 com interface, compatible with multiple stick logger;
6. It can connect multiple meters, and realize address setup respectively.

Basic Parameter

Parameter	Value
Wiring Method	Three-phase Four-wire
Rated Voltage	3x230/400V
CT	Open-type CTx3
Current	3x5(100)A
Rated Frequency	50Hz/60Hz
Accuracy Class	Active 1.0
	Reactive 2.0
Consumption	≤0.5W
Pulse Constant	AC230V 5(100)A-----300
Display	LCD
Working Temperature	-25℃~+60℃
Relative Humidity	≤95% (No condensation)
Air Pressure	63kPa~106kPa
Communication	RS485 (Address: 002; Default baud rate: 9600bps, E, 8, 1, support 1200, 2400, 4800)

Display

Indicator lights instructions

Indicator lights instructions

Light	Implication	Instruction
P	Active pulse	Red light flashing
Q	Reactive pulse	Red light flashing
LINK	RS485 connection	RS485 connection normal-Green light ON
ALARM	Device or connection error	Red light flashing (The voltage and current are reversed phase sequence, please check voltage/current wiring according to site condition)

Display panel



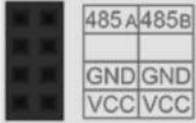
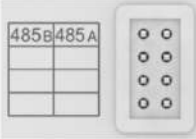
Default: 1 decimal place. If the data exceeds 99999.99, the data will recalculate. Example: 202345kWh.

No.	Content	Display	Unit
1	ID	Addr XXX	
2	A-phase Voltage	UA XXX.X	V
3	B-phase Voltage	UB XXX.X	V
4	C-phase Voltage	UC XXX.X	V
5	A-phase Line Current	LA XXX.XX	A
6	B-phase Line Current	LB XXX.XX	A
7	C-phase Line Current	LC XXX.XX	A
8	A-phase Active Power	PA XX.XXX	KW
9	B-phase Active Power	PB XX.XXX	KW
10	C-phase Active Power	PC XX.XXX	KW
11	Total Active Power	P Total XX.XXX	KW
12	A-phase Power Factor	PFA X.XXX	-
13	B-phase Power Factor	PFB X.XXX	-
14	C-phase Power Factor	PFC X.XXX	-
15	Total Power Factor	PF Total X.XXX	-
16	Frequency	F XX.XX	Hz
17	Total Positive Active Energy	Total XXXXXX	Kwh
18	A-phase Positive Active Energy	A XXXXXX	Kwh
19	B-phase Positive Active Energy	B XXXXXX	Kwh
20	C-phase Positive Active Energy	C XXXXXX	Kwh

Note: * represents a number

Interface Identification

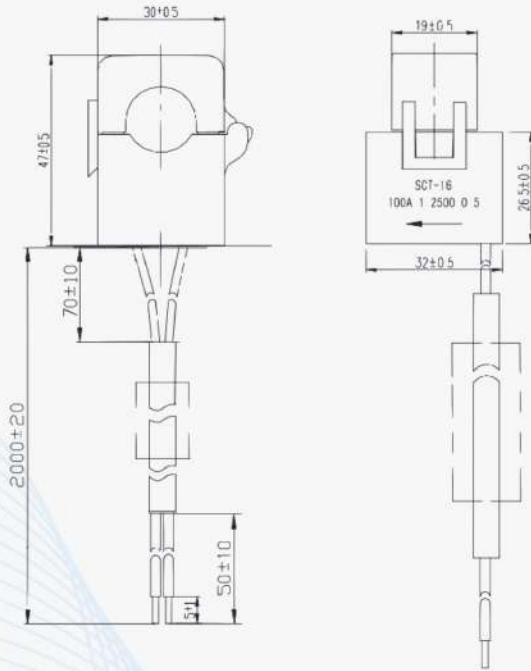
Picture	Name	Instruction	Note
	VA	L-line A	
	VB	L-line B	
	VC	L-line C	
	VN	N-line	
	CTC+	CT C+	CT A, B, C corresponds to A, B, C
	CTC-	CT C-	
	CTB+	CT B+	
	CTB-	CT B-	
	CTA+	CT A+	
	CTA-	CT A-	
	P+	Active Pulse	Meter calibration interface
	Q+	Reactive Pulse	
	DC 5V OUT	Power VCC	DC 5V 350mA output
	GND	GND	
	A85a	RS485 A Receiving&Sending Data	Address: 002; Default baud rate: 9600bps, E, 8, 1
	485b	RS485 B Receiving&Sending Data	

	485A	RS485 A Receiving&Sending Data	Address: 002; Default baud rate: 9600bps, E, 8, 1
	485B	RS485 B Receiving&Sending Data	
	---	---	Power VCC
	GND	GND	RS485 A Receiving&Sending Data
VCC	Power VCC		
	485A	RS485 A Receiving&Sending Data	RS485 B Receiving&Sending Data
	485B	RS485 B Receiving&Sending Data	
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Note: Data interface of Pin, female head RxD, TxD are direct through.

Product Size (Unit: mm, Accuracy: 2%)

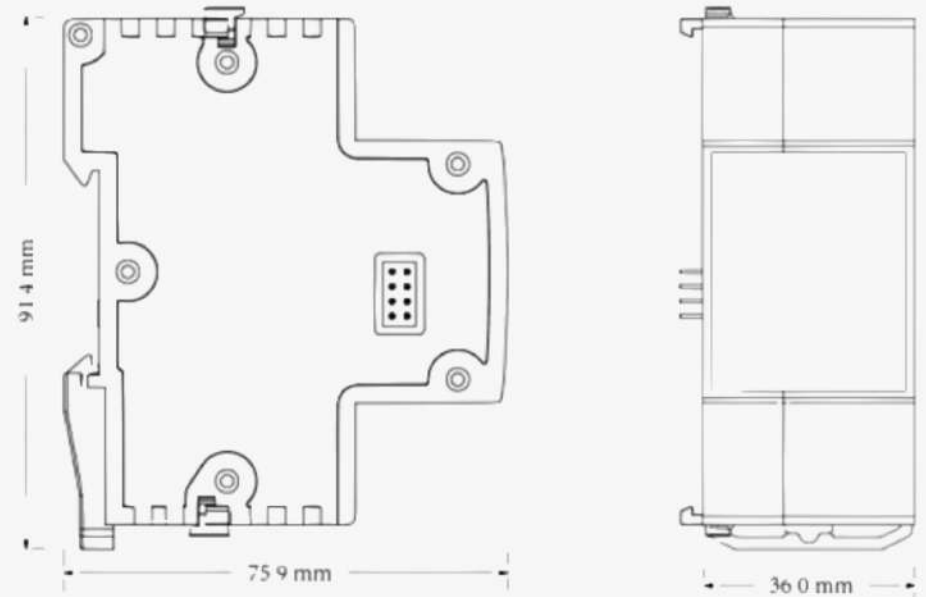
CT specification (Please pay attention to the label)



CT Size



CT Actual Picture



Note: Cable diameter: 16mm at max.

Product Picture



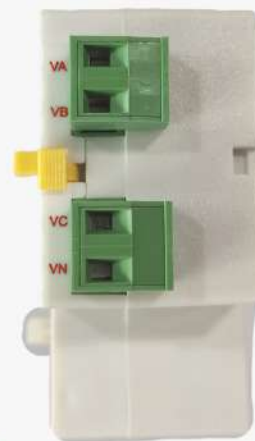
Left View



Right View



Bottom View



Top View



Front View