

SDM72CT-D

Three Phase 4 Wire Energy Meter



- CT operated
- 4 module wide
- Active energy (kWh) measurement
- Pulse output
- IEC62053-21 Class 1.0
- Din rail mounted

User Manual V1.1

2016

Introduction

The SDM72CT-D is a digital three phase 4 wire energy meter with a white back-lighted LCD screen for perfect reading. It provides an economical solution for active energy measurement in three phase applications and it is high accurate, durable and reliable.

PART 1 Specification

General Specifications

Voltage AC (Un)	3x230(400)V
Voltage Range	80~120% Un
Base Current (Ib)	1A/ 5A CT input
Max. Current (Imax)	120% of Ib AC
Mini Current (Imin)	5% of Ib AC
Starting current	0.4% of Ib
Power consumption	<2W/10VA
Frequency	50/60Hz
AC voltage withstand	4KV for 1 minute
Impulse voltage withstand	6KV-1.2uS waveform
Overcurrent withstand	20 Imax for 0.5s
Pulse output rate	1000imp/kWh (default)
Display	LCD with backlit
Max. Reading	999999.9kWh
Active energy	Class 1 IEC62053-21

Environment

Operating temperature	-25℃ to +55℃
Storage and transportation temperature	-40℃ to +70℃
Reference temperature	23℃ ± 2℃
Relative humidity	0 to 95%, non-condensing
Altitude	up to 2000m
Warm up time	5s
Installation category	CAT III
Mechanical Environment	M1
Electromagnetic environment	E2
Degree of pollution	2


Mechanics

Din rail dimensions	72x100x66mm (WxHxD) DIN 43880
Mounting	DIN rail 35mm
Sealing	IP51 (indoor)
Material	self-extinguishing UL94V-0

PART 2 Operation



Initialization Display

When it is powered on, the meter will initialize and do self-checking.



	Full Screen (3S)
	Software Version (2S)
	Pulse constant (2S)
	Total active energy(kWh) Total=Import+ Export

Scroll display


There are two buttons on the front panel of the meter, can be used to scroll display and reset the partial energy. If click the button, the user can scroll down the display for data checking.



Model	Data displayed
	>Scroll the display for data checking. >Changing option at Set-up mode >Exit the Set-up mode
	>Set-up mode entry >Confirm

Scroll Display Page:

	Total active energy(kWh) Total=Import+ Export
	CT setting value

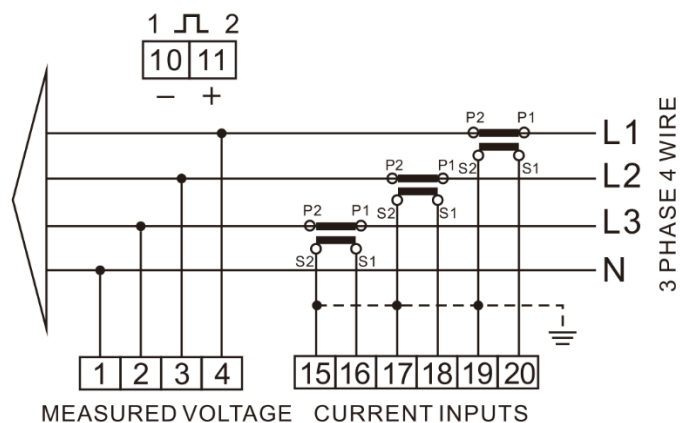
Set-up Mode

To get into Set-up Mode, the user need press the “Enter” button  for 3 second.

Page	Display	Descriptions
		Good: The setting is done correctly
		Error: The entering information is wrong. The operation fails.

		<p>Password</p> <p>To get into Set-up mode, it asks a password confirmation.</p> <p>Default password: 1000</p>
1		<p>Set Password</p> <p>Default : 1000</p>
1-1		<p>Press the “Enter” button, the red part flash.</p> <p>Press the “Scroll” button to change the value.</p> <p>After choose the new password, the user need pressing the “Enter” button to confirm the setting.</p>
2		<p>Ct ratio</p> <p>Default :0001</p>
2-1		<p>Press the “Enter” button, the red part flash.</p> <p>Press the “Scroll” button to change the value.</p> <p>After choose the Ct ratio, the user need pressing the “Enter” button to confirm the setting.</p>

Wiring diagram



Dimensions

