

WON-G3DCT

WON-G3DCT series Three-Phase DIN Rail type energy meter is designed to collect, analyze and measure power parameters. The series of products can support the measurement and analysis of a variety of power parameters in variety of grid environments.

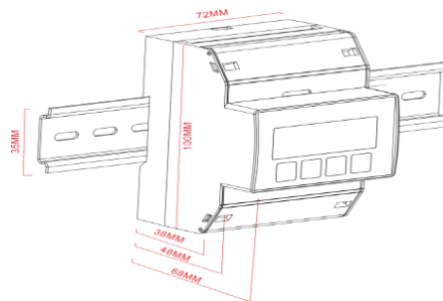
This series of products have RS485 communication interface, which can easily realize remote data reading. Meanwhile, it adopts LCD display, which can view and set various measurement parameters locally, and the product has password protection function to ensure the data security of the product.



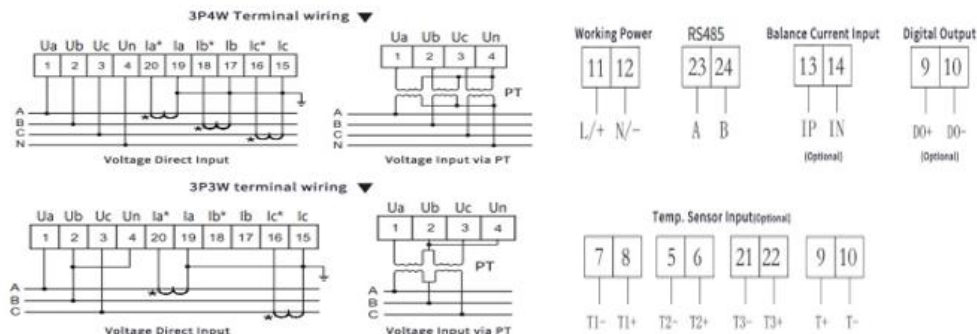
Product Features

- Multi-function parameter measurement
- Bi-directional Energy metering
- CT Operated -/5-/1A field programmable
- channel pulse optocoupler output interface, can set the output parameters
- RS485 communication Modbus RTU protocol
- DIN Rail mounting
- Large LCD display, white backlight, backlight lighting time adjustable
- LCD display refresh time: 1 second, support manual page turning and automatic rotation display (can be set to switch)

Dimension



Wiring Diagram



Technical Specifications

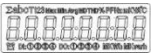
Measurements	Phase voltage, line voltage
	Current
	Frequency
	Each phase Active power and total power
	Each phase Reactive power and total power
	Each Phase Apparent Power and Total Power
	Each phase and average power factor
	Each phase contact temperature and ambient temperature
	Residual current, (through transformer)
Energy measurement	Import and export active power /Energy
	Import and export reactive power / Energy
Communication	RS485 Modbus
Connection Networks	3 phase 4 wires, 3 phase 3 wires
Aux.Supply	AC/DC85~265V
Power consumption	<5VA
Accuracy Class	
Voltage, current	±0.5%
Power	±1%
Power Factor	±1%
Frequency	±0.2
Electricity	±1%
Frequency	45Hz~65Hz
Pulse constant	400imp/kWh
EMC Electromagnetic Compatibility	
Electrostatic discharge immunity test	GB/T 17626.2-2006 : test level 4
RF electromagnetic field immunity test	GB/T 17626.3-2006 : test level 3
Fast transient pulse group test	B/T 17626.4-2008: test level 4
Surge (shock) immunity test	GB/T 17626.5-2008: test level 4
Conducted disturbance immunity test for RF field induction	GB/T 17626.6-2008: Test grade 3

Operating Instructions

1. Button Description

	BS key: Return to the previous menu. When setting parameters, if in the last level menu, it is used as a shift to move the blinking bits.
	Up button: Check the power level on the previous screen, select the previous option in the same menu or type in the value to increment the value.
	DN key: Check the battery level on the next screen display, select the next option in the sibling menu or type in the value to decrement the value.
	T key: Go to the next level menu. When setting parameters, if you are in the last level menu, it is used as "Save and return to the upper-level menu"; When the current menu is the password input menu, judge whether the password is correct, and enter the next level menu if it is correct, otherwise, return to the previous level menu.

2. Startup Display

	The startup interface displays all segment codes in the full screen, and the interface is kept for 0.5s to detect whether the LCD screen can be displayed normally.
	The second interface displays the instrument self-test interface, indicating that the instrument self-test passes or fails, and is used to start the software and hardware check inside the instrument.

Indicator Description

	Representation: Power pulse indicator.
---	--

Parameter Settings

In any power or energy display interface, press the "ST" key to enter the menu code display interface, and through the "Up" or "Dn" key for menu selection, the user must enter the correct password under the PUT menu, if the password is entered incorrectly, then can not enter the setting menu, can not change the parameters. After the initial password value "0001" is entered, press the "Bs" button again to enter the settings menu.

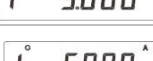
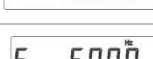
	In any power or energy display interface, press the "Bs" button to display the menu code interface.
	If the user enters the menu code for the first time, only the "Put" menu can be displayed, and when the user enters the password correctly, the other parameter menus can be displayed.
	Under the "Put" menu, press the "St" key to enter the password input screen. Use the "Up" or "Dn" key to add or decrease numbers, and use the "St" key to switch the password digit from right to left to complete password entry. When the input is complete, press the "Bs" key again to save the data and go back.
	If the user enters the password correctly, press the "Bs" key, and select the "SET" menu through the "Dn" key, and enter the menu to change the password, the password range is 0~9999.

Reset Setting

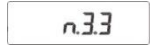
	The user selects the submenu "E.CLE" interface to clean up the energy data. Use "Up" or "Dn" to select zeroing or not. "YESE" is zeroing, and "NOLE" is not zeroing.
	Press the "Bs" key again, save the data and go back.
	When all the settings are completed, return to the "Code" interface, press the "Bs" button again, the "YES" interface appears, press "St" to confirm the modification, and press "Bs" to cancel the modification.

Display Parameter

In the initial display interface, the "Up" button and "Dn" button are used to switch display power parameters such as voltage, current, power, frequency, power factor, and temperature in turn.

	A-phase Voltage Display.		Import Active Energy Display.
	B-phase Voltage Display.		Export Active Energy Display.
	C-phase Voltage Display.		Total Reactive Energy Display.
	A phase Current Display.		Import Reactive Energy Display.
	B-phase Current Display.		Export Reactive Energy Display.
	C-phase Current Display.		Point 1 Temperature Display.
	Total Active Power Display.		Point 2 Temperature Display.
	Total Reactive Power Display.		Point 3 Temperature Display.
	Total Apparent Power Display.		Ambient Temperature Display.
	The Total Power Factor Display.		Residual Current Display.
	System Frequency Display.		Pulse Constant Display.
	Total Active Energy Display.		The current Device Address is displayed.
	A-phase Voltage Display.		The Current device Communication Baud rate is displayed.
	B-phase Voltage Display.		Total Active Power Display.
	C-phase Voltage Display.		Total Reactive Power Display.
	A phase Current Display.		Total Apparent Power Display.
	B-phase Current Display.		The Total Power Factor Display.
	C-phase Current Display.		
	System Frequency Display.		
	Total Active Energy Display.		

Power Parameter Settings

	When the user enters the password correctly, press the "Bs" key twice until it returns to the "code" interface, and select the main menu through "Up" or "Dn". Select "SET" to display the energy parameters and line system
 	Under the "NET" submenu, press "St" to select the menu, and select the three-phase four-wire system or three-phase three-wire system through "Up" or "Dn".
	Press the "Bs" key again, save the data and go back.
 	The user selects the submenu "CT." Under the interface, you can set the current conversion ratio, which is 1 by default. Use the "St" key to switch the position from right to left, and use the "Up" or "Dn" key to increase or decrease the number. Press the "Mu" key again to save the data and go back. If the Ct conversion ratio is 100, the current primary voltage value = secondary value × 100.
 	The user selects the submenu "PT. U" interface, you can set the voltage conversion ratio, and the default is 1. Use the "St" key to switch the position from right to left, and use the "Up" or "Dn" key to increase or decrease the number. Press the "Bs" key again to save the data and go back. If the Pt transformation ratio is 100, the current primary voltage value = secondary value × 100.

Communication Parameter Settings

	When the user enters the password correctly, press the "Bs" key twice until it returns to the "Code" interface, and select the main menu through "Up" or "Dn". Select "Conn" to enter the communication settings.
 	Users can set the communication address under the "Add" interface of the submenu, which is 1 by default.
 	Users can select the submenu "BUD" interface to set the baud rate, which is 9600 by default.
   	Users can select the submenu "data" interface to set the communication format, the default is no parity 8 digit data and 1-digit stop digit. Users can choose even parity 8 digit data and 1-digit stop digit or odd parity 8 digit data and 1-digit stop digit. When all the settings are completed, return to the "Code" interface, press the "Bs" key again, the "YES" interface appears, press the "St" button to confirm. Press "St" to confirm the modification, press "Bs" to cancel the modification.

Address

Wonporul Technologies (P) Limited

44, Selva Vinayagar Koil Street, Ammayappattu-Vandavasi

Tiruvannamalai District, Tamil Nadu-604 408-India

Tel: +91 4183 225 006, Mob: +91 89256 95250, +91 90425 55250, +91 78454 55250

www.wonporul.com E-mail: wonporul@wonporul.com



Connect With Us

