



Quick installation guide for power monitor

For energy storage system. Model name: S4E_1P

Please enter the website http://twtpedsc.cloudapp.net/

-> Support -> User Manual -> Monitor to download the User Manual.

1. Essential Points for Safety

- Do not connect anything other than the dedicated AC adapter on the power source terminal of the Power Monitor. Request a specialist to dispose of the Product.
- · Pull the AC adapter off when any abnormality is detected like smoke, heat.
- Turn OFF the power breaker, to which the Meter is connected when any abnormality is detected with the Meter.
 Do not install the Product in any place that is prevented from having air flow, such as inside closets or under stairs.
 Install the Product with the "DELTA" logo facing up when installing the Power Monitor on a wall. When not installed on a wall, set the Product on the Wall Surface/Desktop Mounting Plate when using the Product.
 Take one to power any approximate on the power Monitor on a wall.
- Take care to ensure no water or other liquid gets on the Power Monitor or the Meter
- The Product is not for outdoor use.
- · Make sure that the construction is such that abnormal rated current (100A) does not flow to the current sensor that has been installed.
- The Product is not a specified measuring instrument that passed any certification criteria of any designated accreditation organization as prescribed by the Measurement Act. The Product may only be used to provide a rough indication on the amount of power
- A touch panel type liquid crystal display has been adopted for the Product. Do not press or hit hard on the surface of the display.

2. Precautions for Use

- The Product may malfunction or may be damaged by static electricity. Be sure to remove any static electricity on the body, through such means as touching a metal object nearby, prior to coming into contact with the Product. Do not connect a telephone line or household LAN cable to the LAN terminal on the Power Monitor and the Wireless
- Communication Unit. There is danger of the Product malfunctioning. Store the Product in a location with the temperature ranging between -20 and +60°C, with the humidity ranging from 30 to 85% RH.
- · The Product communicates wirelessly.
- Install the Product as far away as possible from devices that emit strong radio waves, such as a civil band radio equipment. The communication performance varies depending on the peripheral environment. Verify in advance that the Product
- is communicating normally when installing the Power Monitor on a wall. Avoid installing the Power Monitor near iron plate or steel reinforcements and try to install the Product with as much
- clear space as possible. For residual use, the maximum inverters for connecting to monitor are 3 inverters.
- Incorrect orientation or installation site of the current sensor, and incomplete locking, will prevent accurate measurements.
 The current sensor has polarity. Install so that the power company side of the current sensor is on the systems side, and the indoor side is the master short circuit breaker side. Check that the connected current sensor and the current sensor cable connector are connected correctly
- The Product is not compatible with the Total Amount Purchasing System of the Feed in Tariff Scheme for Reusable Energy.
 Do not pull out the USB Wireless Module while the power is turned on. Communication with the personal computer
- and the Meter will no longer be possible. Do not use any USB Wireless Module other than the one that was bundled with the Product.

- Do not install the Product in following types of locations:
 A location with severe fluctuation of temperature.
 A location that is exposed to sea breeze (excluding the Wireless Communication Unit for Inverter). · A location that is exposed to volatile, combustible, corroding or toxic gases
- A location exposed to direct sun light.
- A location exceeding the operating temperature range (-20 to +50°C) (5 to 35°C for the USB Wireless Module).
- A location covered by metals or metal fittings, metals installed on walls, on top of a metal desk, between metal products or near telephone unit, facsimile unit, personal computer, personal computer peripheral device, television set. microwave oven or induction heating (IH) product.





4. Creating Voltage Detection Cables (Prepare VCTF cables (cable diameter 1.25mm²).)

This section explains the creation of voltage detection cables



5. System Diagram



6.2. Current Transformer installation

1. The CT can be opened.

6.3. Data communication setup (1/2)

- One Point
- (3) Hang the hooks (1) on the lower back of the power and the wireless communications unit at the
- 1. Put the signal wires of the monitor (or the inverter)

- 3. Scope of Delivery 💥 () is amount of spare parts.
- A location with a large amount of dust (powder dust, sand dust, cotton dust, metal dust, saw dust, straw dust and the like).

lease set connection ID before connect to the Inverters. The ID of inverters must be different. The ID range is 1~3

- 6.1. Mounting the Installation Unit, Wireless Communications Unit, and DIN Rail
- (1) Remove the protective cover from the power input terminal block on the power meter
- (2) Use wooden screws for the enclosed DIN rail to mount the DIN rail horizontally to the perpendicular site





the DIN rail to secure



(5) Finally, mount the stoppers to both ends of the power meter and the wireless communications unit. · Press the stoppers into the DIN rail and use a flat screwdriver to rotate the screws on the stopper (as shown in the diagram below to finish the mounting



(6) Check that the stopper hooks have bitten into the DIN rail









(5) When the time settings are finished, the connection setting will be displayed, so make the connection setting. If using wires, select **RS-485** as the connection method, and then enable the No. field of the power meter and the No. field of the ID number set on the inverter, and press the [Save] button.



- will be displayed.
- As processing is implemented immediately after the settings are made, a "" icon is displayed, so check the following details 1 to 3 mins later.
- Check that the "X" icon is not displayed on the home screen.
- Check that the values for the power production icon have changed.
- Check the connection setting and connection log.

 ※ If making the connection setting again, switch to service mode.
- " " is other icon that means no internet cable is insert. Monitor can still work without internet.



Touch the screen to display each menu.



Power log is displayed.



Status of the Inverter and the error log are displayed.



Setting for the Inverter and monitor.



Display the status of Inverters.



This is a slideshow feature.

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