# **A NELTA**

## Quick installation guide for power monitor

For commercial use only. Model name: PPM R3E-000

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

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

#### **Essential Points for Safety**

- · Request a specialist to dispose of the Product.
- Do not install the Product in any place that is prevented from having air flow, such as inside closets or under stairs.
- Pull 6-pin terminal off when any abnormality is detected like smoke, heat.
- 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 care to ensure no water or other liquid gets on the Power Monitor.
- 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.
- 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.
- Do not connect a telephone line or household LAN cable to the LAN terminal on the Power Monitor. 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.
- For commercial use, the product can monitor maximum 32 inverters at one time.

#### Do not install the product in the following places:

- · Do not expose to extreme fluctuation temperature.
- Do not expose to salt air.
- · Do not expose to corrosive substances, explosive / flammable GAS, chemicals.
- Do not install in direct sunlight.
- Do not install in a place exceeding the operating temperature range (-20 to +50°C).
- Do not install above 2000m MSL or higher.
- · Do not expose to water vapor, oil vapor, smoke, cotton dust, metal powder, sawdust, Warakuzu.

% If installed outdoor, please put it in box which is suitable for outdoor use.

## **Descriptions of Parts and Components**



## **Setting Connectors and Cables**

- Setting cables Prepare 0.3 to 0.5mm<sup>2</sup> x single wire, 4 cores (twin wires rather than 2 pair) shielded cables (rated temperature: 80°C to 85°C).
  Process the cables before use.



## **Scope of Delivery**

NO.	Product name	Qty	Remarks	Shape
1	Power Monitor	1 unit	Main unit	
2	Wall Surface / Desktop Mounting Plate	1 piece	This is a plate used to install the Product on a wall or on a desk.	
3	Wood screws (+) for Wall Surface / Desktop Mounting Plate (dia. 4 x 20 mm)	2 pieces	These are wood screws for the Wall Surface / Desktop Mounting Plate.	
4	6 pin connector	1 piece	Connect to the main unit.	
5	Quick installation guide	1 сору	This document.	

%Prepare 0.2 to 0.33mm2 x single wire, 4 cores (twin wires rather than 2 pair) shielded cables (rated temperature: 80°C to 85°C).

Wood screws

4 dia.

## **Installation Method**

- Installation on wall
  - 1 Install the Wall Surface / Desktop Mounting Plate on the wall, using the wood screws provided.
  - Install the Wall Surface / Desktop Mounting Plate on a location that can withstand the weight of the main unit.
     Use countersunk screws of 4 dia., when installing
  - Use countersunk screws of 4 dia., when installing at a location where the provided wood screws cannot be used.
     Analysis of 5 to 2.0 No when installing
  - Apply torque of 1.5 to 2.0 Nm when installing wood screws on a wall made of wooden materials.
    Install on a flat wall surface.
- ② Verify the hooking portion of the Wall Surface / Desktop Mounting Plate and the Wall Mounting Plate and the insertion slot for anchoring the Wall Surface Mounting Plate on the reverse surface of the main unit, then press on the main unit until the insertion slot for anchoring is positioned above the upper section of the Wall Surface / Desktop Mounting Plate.
- ③ Slide the main unit lower in that position and securely engage the hooking portion.
- Hook on the insertion slot for anchoring the Wall Surface Mounting Plate on the reverse surface of the main unit on the Wall Surface / Desktop Mounting Plate and shift down by approximately 1 centimeter.





## Method for communication card disassembled

(1) Remove the communications connectors from the inverter, and thread the cables through the waterproof gasket.

cables connected to the power monitor as follows: 1 VCC, 2 GND, 3 DATA+, 4 Data-.

Check that the cables have been inserted securely.

(4) Next, insert the aforementioned cables into the adjacent inverter as follows: 3 Data+, 4 Data-.

(5) After completing the connection, turn ON the terminal switch for only the inverter that is farthest from the monitor, and set all the other inverter to 1 (OFF).



#### Connecting the main unit and the 6 pin connector



#### **Initial setting**

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(2) When monitor shows connection is started. please click "YES".

(4) When time setting is done, monitor will show connection set up page. Please select inverter ID and click "Save".

		Connection		
01	09	17	25	
	10	18	26	
03	11	19	27	
04	12	20	28	
05	13	21	29	
06	14	22	30	
07	15	23	31	
08	16	24	32	
		0		

(5) When ID selection is done, monitor will show

#### Home screen



When touching the screen to display each menu.

- ① [Energy Log]: Power history is displayed.
- 2 [Information]: Status of the Inverter and the error history are displayed.

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- ③ [Setting]: Setting for the Inverter and monitor.
- ④ [Inverter Status]: Display the status of Inverters.



(3) When monitor shows time setting, please set up time.



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If change is needed, please click "Reconfigure". If selection is correct, please click "Save", then monitor will show main page.

	С	onnection	
01	09	17	25
<b>2</b>	10	18	26
03	11	19	27
04	12	20	28
05	13	21	29
06	14	22	30
07	15	23	31
08	16	24	32
	Save	Reconfi	aure

