

三折页,正反面打印, 黑白印刷,成品尺寸 77x105mm

APsmart

Transmitter-PLC Installation

① Power Supply
② Transmitter-PLC
③ Core 1
④ Core 2

180/550Vac Power Supply
Optional Power Supply 120/240VAC 480/277VAC

Note: Transmitter-PLC terminal installation requirements:
1. A 3mm slotted screwdriver
2. The torque requirement standard: 0.2-0.4N·m

Warning: The cores need to be fixed to prevent swing and causing the damage to the Transmitter-PLC.

Note: If there is only one core needed, connect using Core 1 terminal.

Power supply must be on same AC branch circuit as inverter to meet rapid shutdown requirements.

During operation, the Power LED should be lit and the signal LED should be blinking. If the Transmitter fails to work, the signal LED will not be blinking. If the Power LED is also not lit, check the power supply first.

Note: Install the RSD-S-PLC before powering on the Transmitter.

- Mount Transmitter-PLC and power supply on DIN rail
- Connect DC leads from power supply to transmitter-PLC
- Connect dual core(Core 1 and Core 2) to transmitter-PLC

Place rapid shutdown system label no more than 1m (3ft) from Transmitter or AC disconnect if not at same location.

1 Version:1.6

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Transmitter-PLC Wiring

AC Wires for Power Supply

Grounding PE L2 L1

Only (+) or (-) through Core

Note: 180/550Vac power supply isolation class I requires grounding. 85/264Vac power supply isolation class II does not require

Note: Install the RSD-S-PLC before powering on the Transmitter.

- Pass either positive or negative cables through cores (either both positive cables or both negative cables. Do not use one positive and one negative cable.)
- Connect wires to AC side of Power supply

DC Cable Diameter(without connector)	Φ5.9mm	Φ6.35mm	Φ7mm	Φ8.6mm
29mm Core	≤15	≤15	≤14	≤10
11mm Core	≤6	≤5	≤4	≤2

Max String Length: **30 modules**
Max Current Per Core: **150A**
Max Cable Length From Inverter (+) to Inverter (-): **1000ft (300m)**

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Transmitter-PLC Wiring

① RSD-S-PLC
② Transmitter-PLC Outdoor Kit
③ Inverter

*Only (+) or (-) through core

Troubleshooting

Check that the system conforms to the design rules:

- Up to 30 modules per string
- String length up to 1000ft (total cable length from + to -)
- DC cables through Core must be the same polarity(all positive or all negative)
- Power LED should be lit and Signal LED should be blinking during operation
- Verify that Core wiring is correct
- Power cycle Transmitter-PLC if Signal LED is unlit

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Outdoor Kit Drilling Guide

Drilling Guide for .75" Conduit

Single Core Dual Core

108 61 61 68 40 50 50 50 50 50 50 50

2x∅28 ∅28 3x∅28 2x∅28

Drilling Guide for 1" Conduit

Single Core Dual Core

104 61 61 52 52 54 54 54 54 54 54

2x∅35 ∅35 3x∅35 2x∅35

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Product information is subject to change without notice.

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Transmitter-PLC Outdoor Kit

Quick Installation Guide

Rev1.7 2021/3/27

This installation guide is for customers who have purchased Transmitter-PLC-Outdoor Kit. If you have not purchased our outdoor Kit, the following content is used as a reference.