

APsmart RSD Installation Best Practices for SunSpec PLC

If the system uses 2 or more APsmart transmitters-PLCs, the following best practice methods are introduced to ensure a successful installation. This documentation should be ignored if the system is only using single APsmart Transmitter-PLC, or for any inverter suppliers which has solved SunSpec PLC crosstalk issue.



Cable tray installation method 1: Avoided

When multiple RSD systems use one cable tray, PLC signal crosstalk may occur due to its technology nature when the transmitter signal passes through the powerlines. This crosstalk issue may cause the rapid shutdown systems to be shut down or start operating abnormally.



Cable tray installation method 2: Required



Cable tray installation method 3: Recommend



Note:

crosstalk is to occur

- 1. The "Required" method only applies to the system that installed APsmart Transmitters-PLC.
- 2. The "Recommend" method only applies to the system that is experiencing SunSpec PLC signals crosstalk issue.
- 3. It is not necessarily that all SunSpec RSD systems will experience PLC crosstalk issue, due to different design and equipment suppliers, those installation best practices may help to improve or resolve it.

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