



Remote control unit connectivity for CMR compact modular recloser

usa.siemens.com/cmrrrecloser

The remote control unit (RCU) is an optional addition to the compact modular recloser (CMR) that facilitates the connection to a utility's SCADA system. The pole-mounted enclosure contains a microprocessor and a wireless short-range radio (approximately 65 ft (20 m)) to interface with the CMR. A long-range radio or modem is fitted by the utility to communicate with the SCADA center.

SCADA connectivity

Protocol selection allows customers to select IEC 60870-5-104 (IP protocol) or DNP 3.0 (serial link and IP protocol).

DNP 3.0

The RCU has over 200 digital points and more than 40 analog points providing status information on CMRs and the RCU.

IEC 60870-5-104

As a user-configurable parameter, the user selects the IEC protocol option and simply configures the Ethernet port and other data required for connection.

Configuration

Configuration of the RCU is carried out wirelessly over the short-range radio using the RCU Connect PC application. The latest software version for the RCU Connect PC software is available in SOS Data Management Cloud. It provides new templates to configure RCU database points mapping and parameters.

Power supply

An auxiliary charging supply can be provided by a voltage transformer connected to the medium-voltage line of the installed CMR. In environments where sufficient sunlight is available, the RCU can instead be powered via a solar panel. The solar panel is connected into the terminal compartment to a dedicated set of terminals as an alternative to the mains supply.

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Details and ratings

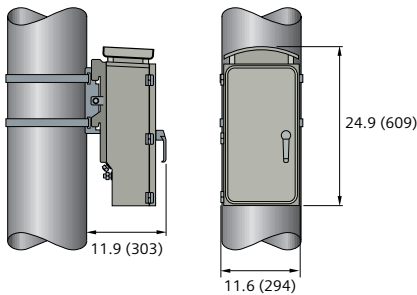
RCU

The RCU is tested according to the relevant parts of IEC 60950-1: 2005 Information technology equipment – safety.

Ambient temperature range	-22 ¹ to + 113 °F (-30 ¹ to + 45 °C)
Humidity	5 to 95%
IP rating	IP55

Cubicle

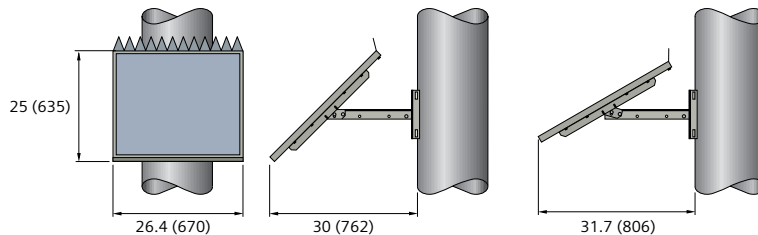
- Manufactured from powder-coated stainless steel
- Material options²:
 - 304 standard stainless steel
 - 316 marine grade stainless steel
- Handle with an internal three-point locking mechanism, an external padlock can be fitted
- Equipped with a high-grade, UV-stabilized plastic shade hood
- Radio tray for installation of utility-specific radio/modem.



Solar panel

Power ratings	65 W
Nominal voltage	18 V
Cell type	Polycrystalline

- Panel kit includes solar panel, mounting bracket, bird roost guard, and cable
- Designed for mounting on timber, steel, concrete, and stobie poles
- Can be installed at 30° or 45° angle.



Dimensions in inches (mm)

Footnotes:

1. Below 5 °F (-15 °C), the low-temperature cubicle version is required (heater included)
2. At time of ordering.



RCU features



SCADA connectivity



IEC 104 and DNP 3 communications protocol support



Encrypted wireless communication



Low power consumption



Solar powering option

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