



L570 RF Load Control Switch

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Advanced Control for Large Loads

Overview

The L570 RF Load Control Switch is designed to control large loads as part of a demand response program using the Gridstream® RF network. The switch can be powered from 480 VAC supply voltage making it an ideal solution for controlling high energy demand applications, such as irrigation and municipal water pumps. At peak usage a single pump can equal the load of 10 residential homes, making these types of loads attractive targets for peak management.

The switch uses a remote measurement method, where the back-office system estimates the amount of available load and provides measurement and verification of the curtailed load from data sent by the switch. The switch offers advanced load management features, such as a cold load pickup to prevent large current draw after recovering from an extended load management event. An integrated Gridstream RF radio provides robust, two-way communication utilizing the AMI network to ensure operations are carried out and confirmed on schedule. Acting as a node on the mesh network, the switch can route messages through meters and routers or directly to a data collector.

The L570 RF Load Control Switch gives utilities a robust and cost-effective option to implement demand response and realize a greater return on smart grid investments.

FEATURES & BENEFITS:

Why Landis+Gyr makes a difference.

- 30A relay for load management
- Near real-time metrological data collection
- Gridstream radio network communications
- Cold load pickup
- Firmware over the air upgradable
- Supply voltage 480 VAC
- Under frequency detection
- Status and error LEDs
- External antenna option available

Product Specifications: L570 RF Load Control Switch

Size	7.0" x 9.5" x 3"
Power Measurement	Remote measurement method
Operating Voltage	480 VAC
Measured Values	Apparent power
	Accumulative energy
	Load duty cycle
Relays	One 30A off-board relay
Cold Load Pickup	Configurable randomized delay for staggering loads back on
Frequency Measurement	Detection of under frequency based on preset limits
Human Interface	Externally visible diagnostic status LEDs
Operating Temperature	-40°C to +65°C
Enclosure	NEMA4 compliant rain-tight enclosure with padlock seal for tamper detection
Antenna	Available with internal and external antenna options
Communications	Landis+Gyr Gridstream radio
	General radio items frequency range 902-925 MHz
	RF baud rate 9.6–115.2 kbps
	RF output power – selectable max. 27.8 dBm/600 mW
	Complies with FCC Part 15 unintentional radiation requirements

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