



3000 Collector
TS1 ■ TS2 ■ PLX



Enhanced Data Collection Capabilities for PLC Systems

Overview

The PLC 3000 Series Collector provides a powerful and flexible data collection and control center for users of Landis+Gyr's power line carrier advanced metering systems. The collector manages constant two-way communications between all assigned residential, commercial and load control endpoints individually in both defined groups or across the entire network. The enhanced power of the 3000 series continually pushes interval data and full register reads to the head end software, Command Center, which simultaneously transmits commands to perform disconnects, firmware upgrades or reconfigurations at the endpoint.

In addition, the PLC 3000 Collector is designed to provide power quality reporting that is unmatched in the industry. How? By assigning a digital signal processor card to

each feed and continuously monitoring the signal quality of each endpoint. During this process, the collector detects changes that can be a slight degradation over time due to failing equipment or foliage on the line. If the signal degradation occurs quickly, the collector will immediately and accurately notify the utility of an outage.

By mapping the individual outages within Command Center or a third party OMS, the utility can immediately dispatch a truck to the exact location. And when power is restored, restoration of power can be validated prior to the truck leaving the area.

The 3000 Series Collector, with the use of a WAN modem, is compatible with DSL, fiber, cable modem, RF, mobile (3G or 4G), leased line and other methods of communication to the head-end.

FEATURES & BENEFITS:

Why Landis+Gyr makes a difference.

- Operates in a dynamic distribution system and accommodates switching operations
- 30 days of storage of all reads from every assigned endpoint
- Accurate, automatic notification of power outages within minutes of occurrence
- Automatic notification of power restoration within minutes
- Capacity for up to 150,000 residential endpoints

Product Specifications: 3000 Collector

Specifications

Product Part Numbers	FASY-0632-0019 Gridstream Enclosure
	FASY-0632-0018 Gridstream PLX Blade without downstream fiber
	FASY-0632-0017 Gridstream PLX Blade with downstream fiber
	FASY-0632-0003 Gridstream TS2 Blade without downstream fiber
	FASY-0632-0002 Gridstream TS2 Blade with downstream fiber
	FASY-0632-0005 TS1 Blade
	FASY-0632-0004 Blank Blade
Size	17 1/8" W x 13 1/2" D x 10 3/8" H
Weight	19 lbs, 1.6 oz. (each blade 14.4 oz.)
Mounting Standard	19-inch industrial rack mount (6U vertical)
Power Supply	120V to 240V, 50/60 +/- 1Hz
Power Consumption	75w (1.2A) Max
Operating Temperature	-40° to +65°C
Operating Humidity	< 95% (non-condensing)
LAN	Ethernet
Backhaul Communication	TS1/TS2: 128 Kbps (upload & download)
	PLX: 256 Kbps (upload & download)
Ethernet Ports	1 front panel, 2 rear panels
Serial Ports	1 front panel
LED Indicators	Power
	Processor Status
	DSP Blade Status
	Ethernet TX/RX Status
Standards Compliance	
ANSI/IPC-A-610	Acceptability of Electronic Assemblies
FCC CFR Title 47 (Part 15, subpart B) ICES-003 (Issue 5, 2012)	Radiated and Conducted Emissions
IEC 61000-4-2	Electrostatic Discharge Immunity
IEC 61000-4-4	Electrical Fast Transient/Burst Immunity
IEC 61000-4-5, IEEE C62.41.2-2002, Category B	Surge Immunity (Combination Wave)
IEC 61000-4-11	Voltage Dips and Interrupts Immunity
IEC 61000-4-12, IEEE C62.41.2-2002, Category B	Surge Immunity (100 kHz Ring Wave)
IEC 61000-4-18, IEEE C37.90.1-2002	Surge Immunity (1 MHz Oscillatory)
ISTA Procedure 1A	Transportation Vibration and Drop
ANSI C12.1-2008 4.7.3.16	Effect of Operating Temperature
ANSI C12.1-2008 4.7.3.17	Effect of Relative Humidity
Accelerated Life Test	70°C with 85% Relative Humidity for 910 hours

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