

Gridstream RF Mesh Residential Endpoints

Landis Gyr manage energy better

Meter Platforms FOCUS® AL Enhanced FOCUS AX Enhanced FOCUS AXe Series 5 FOCUS AXe Enhanced Honeywell (Elster) REXU

Secure Intelligence Meets Residential Metering for Optimum Revenue and Greater Efficiencies

Overview

More options. More security. Landis+Gyr's Gridstream[®] RF Mesh Residential Endpoints deliver. No matter the application, the RF mesh residential platform was designed to excel at advanced metering applications that optimize revenue and efficiency, while providing the data and sensing capabilities need for smarter grid management.

The endpoint leverages its integrated design and advanced functionality to work with the meter and provide a direct, meter register read. The endpoint transmits and receives data via Gridstream's robust and self-healing mesh network, utilizing the 902 to 928 MHz FHSS unlicensed frequency. Our premier single- or poly-phase digital endpoints prioritize application-based messages, expand to millions of endpoints, and offer control through the intuitive, browser-based interface for streamlined network and data management.

In addition to kWh, kW and voltage readings, the endpoints report load profile, time-of-use periods and up to 5-minute interval data for billing, engineering and customer service applications. With the exception of the FOCUS AL platform, endpoints may be ordered with integral service disconnect and built-in, SEP certified, ZigBee[®] Home Area Network (HAN) interface.

The Series 5 FOCUS AXe platform accommodates a standards based stack firmware, enabling use of non-proprietary network managers and tools.

FEATURES & BENEFITS:

Why Landis+Gyr makes a difference.

- Enhanced security tilt/vibration tamper detection, magnetic/DC detection and complete optical port lockout
- Full two-way communication on-demand or routine
- Scheduling of metrology available data
- Remote upgradeable application

 eliminates on-site firmware and hardware changes
- Integral service disconnect with load limiting (AX-SD, AXe and REXU platforms)
- Advanced data support demand, TOU, load profile, and voltage
- Voltage monitoring and reporting

::: Gridstream RF

Product Specifications: Gridstream RF Mesh Residential Endpoints

	FOCUS AL	Enhanced FOCUS AX	Enhanced FOCUS AXe	Series 5 FOCUS AXe	Enhanced Honeywell (Elster) REXU				
Electrical									
Voltage	120 or 240 V (depending on meter form)	9–16 V (from meter's power supply)	9–16 V (from meter's power supply)	3.8 V–4.2 V DC (from meter's power supply)	Nominal Voltage (+/-20%)				
Power	Max: 2.8W (1.8W meter, 1W transceiver)	Max: 1.0W	Max: 1.0W	Max: 5.6W	Max: 3.0VA				
	Typical: 2W (1.6W meter, 0.4W transceiver)	Typical: 0.6W	Typical: 0.6W	Typical: 0.5W	Typical: <1VA				
RF 900 MHz									
Output Power	+26 dBm +/-1 dBm	+26 dBm +/-1 dBm	+26 dBm +/-1 dBm	+27 dBm +/-1dBm	+26 dBm +/-1 dBm				
Adjacent Channel Power	+39 dBc Nominal	+39 dBc Nominal	+39 dBc Nominal	+40 dBc Nominal	+39 dBc Nominal				
Transmit Frequency	902 to 928 MHz ISM unlicensed (FCC Part 15)	902 to 928 MHz ISM unlicensed (FCC Part 15)	902 to 928 MHz ISM unlicensed (FCC Part 15)	902 to 928 MHz ISM unlicensed (FCC Part 15)	902 to 928 MHz ISM unlicensed (FCC Part 15)				
Receive Sensitivity	-108 dBm minimum	-108 dBm nominal	-112 dBm (typical, 9.6 kbps)	-114 dBm (typical, 9.6 kbps)	-110 dBm (typical, 9.6 kbps)				
			-110 dBm (typical, 19.2 kbps)	-110 dBm (typical, 115.2 kbps)	-102 dBm (typical, 19.2 kbps)				
				-99 dBm (typical, 300 kbps)					
RF ZigBee [®]									
Output Power	N/A	+20 dBm +/-2 dBm							
Adjacent Channel Power		40 dBc Nominal	40 dBc Nominal	40 dBc Nominal	40 dBc Nominal				
Transmit Frequency		2405–2480 MHz	2405–2480 MHz	2405–2475 MHz	2405–2480 MHz				
Communications Protocol		ZigBee Protocol	ZigBee Protocol	ZigBee Protocol	ZigBee Protocol				
Receive Sensitivity		-104 dBm Minimum	-104 dBm Minimum	-104 dBm Typical	-104 dBm Minimum				
Standards Compliance									
FCC Title 47 CFR Part 15	Radiated and Conducted Emissions (including intentional radiators)								
IEC 61000 4-2, 3, 4, 5, 11, 12	Electromagnetic Compatibility								
ANSI C12.19	Compatible with Utility Industry End								
ANSI C12.20-2002	National Standard for Electricity Meters – 0.2 and 0.5 accuracy class								
ANSI C12.1-2008	Code of Electricity Metering								
ANSI C37.90.1-2002	Standard Surge Withstand Capability (SWC) Tests								

COMPATIBILITY

Class	1S	2S	2SE	2K	3S	4S	9S(8)	12S(25)	12SE(25)	16S	16SE	36 S(6)	45 S(5)
100	AL												
	AX*												
	AXe												
200	AXe*	AL						AL		AX			
	REXU*	AX*						AX*					
		AXe*						REXU*					
		REXU*											
320		REXU	AL					AXe*	AX		AX		
			AX					REXU					
			AXe										
480				AL									
				AX									
				AXe									
10/20					AL	AL							
					AX	AX							
					AXe	AXe							
20					REXU	REXU	AX					AX	AX

*Disconnect switch available

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