



Advanced RF Mesh Metering Solution for Residential Application

The Landis+Gyr RF Mesh Solution provides intelligent automation for utility advanced metering and consumer energy management programs. The

FOCUS AX Universal RF endpoint offers an integrated design with the FOCUS AX meter for use in residential deployments. The endpoint transmits and receives data through a robust and self-healing mesh network utilizing the 902 to 928 MHz FHSS unlicensed frequency. With added ease of use and scaling intelligence, this premier single-phase digital endpoint can prioritize messages based on application, expand to millions of endpoints, and provide control through a user-friendly browser-based interface for network and data management.

The FOCUS AX Advanced Function meter is an Active Energy kWh/kW/TOU Meter. The meter features Digital Multiplication Measurement Technique, meets ANSI standards for performance and utilizes ANSI C12.19 protocol.

KEY BENEFITS

- Full Two-Way Communication – On-demand or routine scheduling of metrology available data
- Remote Upgradeable Application – Eliminates on-site firmware and hardware changes
- Integrated Service Disconnect with load limiting
- Advanced Data Support – Demand, TOU, load profile, voltage, SAG, swell capabilities
- Home Area Network Interface – ZigBee® SEP certified

Product Specifications

Product Part Number	FASY-0746-0001
Size	3.242 L x 5.315 W x .094 D inches, typical
Weight	2 ounces (56.7 g), typical
Operating Temperature	-40° to +70°C (under meter glass)
Operating Voltage	120 to 277V (depending on meter form)
Radio Power Consumption	Max: 1.0W Typical: .06W
RF 900 mHz	
Transmit Frequency	902 to 928 MHz ISM unlicensed (FCC Part 15)
Output Power	+26 dBm +/-1 dBm
Communication Protocol	Stat RF Mesh Protocol
RF Zigbee	
Transmit Frequency	2405 to 2480 MHz
Output Power	+20 dBm +/-1 dBm
Communication Protocol	Zigbee Protocol

Compatibility

Meter Form	Class	Voltage
1S*	100	120
2S*	200	240
3S	10, 200	120, 240
4S	10, 200	240
12S*	200	120-277
12SE	320	120-277
16S	320	120-277
25S	200	120-277
25SE	320	120-277

* FOCUS AXR-SD also supported

Standards Compliance

Standard	Description
FCC CFR Title 47 (Part 15, subpart B)	Radiated and Conducted Emissions
IEC 61000 4-2,3,4,5,11,12	Electromagnetic Compatibility
ANSI C12.19	Compatible with Utility Industry End Device Tables
ANSI C12.20	National Standard for Electricity Meters - 0.2 and 0.5 Accuracy Classes
ANSI C12.1-2001	Code for Electricity Metering
ANSI C37.90.1 (1989)	Standard Surge Withstand Capability (SWC) Tests

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