



# M125 RF Residential Gas Communications Module

## Two-way residential gas metering for network continuity

The M125 RF Residential Gas Communications Module provides a two-way AMI communications retrofit solution for small diaphragm gas meters over Landis+Gyr's scalable, secure, and interoperable Gridstream® Connect RF Mesh network.

The M125 is the next generation solution in the widely-deployed M120 product line. The module is designed to record and communicate consumption and one channel of interval data. This data equips utilities to develop flexible rate offerings, and assists with capacity planning.

The M125 gas module automatically self-registers on the Gridstream Connect network upon installation, simplifying deployment by eliminating the need for installation, configuration, and specialized tools. The M125 module mounts on almost any residential gas meter built since the 1950's. In addition, the module can be configured to transmit data in intervals from once a day, to once every hour. The M125 gas module leverages AMI connectivity through other Landis+Gyr products, such as electric meters, routers, street light controllers, or radios on distribution automation devices. This flexibility is key for maximizing the benefits of Gridstream Connect, enabling utilities to effectively manage multiple types of endpoints on a single network.

With a 20-year battery life, the M125 gas module ensures years of solid customer service.

### Features

- Leverages full potential and scalability of Gridstream Connect AMI network
- Reading pickup sensor based on Hall Effect delivers unmatched accuracy
- Supports Landis+Gyr RF Mesh, Mesh IP, and Wi-SUN networks
- Advanced Security encryption
- Fits most common residential gas meters by using existing index
- No field programming or special field tools required
- Easy field replaceable battery
- Performs self-diagnostics for network connectivity and firmware rollbacks
- Variety of event settings to inform of module issues such as low battery, tamper detection, tilt, etc.
- Enhanced range (500 mW or 27 dBm)
- No configuration required during installation; keeps deployment on schedule
- Produces one channel of load profile data which can be used for advanced rates, such as time-of-use

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## Product Specifications

<b>Power Supply</b>	Two "AA" lithium manganese dioxide batteries
<b>Battery Life</b>	20 years on standard operating profile
<b>Environmental Temperature Rating</b>	-40°C to +85°C
<b>Environmental Relative Humidity</b>	0% to 95%
<b>Radio Compliances</b>	FCC Part 15.247 , FCC Part 15.249, IC RSS-210
<b>Frequency Range</b>	Unlicensed 902 – 928 MHz band
<b>Baud Rate (kbps)</b>	RF Mesh 9.6, 19.2 and 38.4 RF Mesh IP 50 Wi-SUN 50 and 150
<b>ANSI Standards</b>	B109.1 Compliance
<b>Ingress Protection</b>	IP 54 : Protection against Dust and Water Splash
<b>Intrinsic Safety</b>	UL Class 1, Division 1, Group D
<b>Configurable Data Transmission</b>	Default: One transmission per 24 hours (includes last 24 hours of 15-minute interval data and last consumption value)
<b>Key Event Alarms</b>	Magnet tamper detection, tilt detection, low battery, stale register, extreme temperature change, module removal detection
<b>Universal Retrofit Model Meter Manufacturer</b>	
Residential American/Elster/Honeywell (M-125A)	Circle Index
Residential American/Elster/Honeywell (M-125B)	Odometer Metal Index
Residential Sprague/Schlumberger/ Actaris/Itron (M-125C)	Slanted Index Face
Residential Rockwell/Equimeter/ Invensys/Sensus (M-125D)	Circle Index
Residential Rockwell/Equimeter/ Invensys/Sensus (M-125E)	Odometer Index

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## Let's build a brighter future together.

Landis+Gyr is a leading global provider of integrated energy management solutions. We measure and analyze energy utilization to generate empowering analytics for smart grid and infrastructure management, enabling utilities and consumers to reduce energy consumption. Our innovative and proven portfolio of software, services and intelligent sensor technology is a key driver to decarbonize the grid. Having enabled 9 million tons of CO<sub>2</sub> savings in FY 2024 through our product offerings, Landis+Gyr manages energy better – since 1896. With sales of USD 1.7 billion in FY 2024, Landis+Gyr employs around 6,300 talented people across five continents. For more information, please visit our website [www.landisgyr.com](http://www.landisgyr.com).