G480 Ultrasonic Smart Gas Meter

Industry-leading Solid State Ultrasonic Measurement with Integrated Communications

The G480, designed and built from the ground up by Landis+Gyr, is an all-in-one ultrasonic gas meter, pressure measurement, and valve that delivers advanced smart technology solutions in a compact, flexible, and proven meter. Based on 30 years of global leadership experience and installation of more than 18 million Ultrasonic Gas Meters, the G480 provides solid-state ultrasonic measurement with integrated communications over Landis+Gyr's Gridstream® Connect IoT network, supporting cellular, Wi-SUN, RF Mesh, and Mesh IP protocols.

Features

- Solid-state meter with integrated communications
- State-of-the-art ultrasonic measurement technology – no moving parts for higher accuracy and quiet operation
- Half the size and weight of diaphragm meters for ease of installation
- Maintains metering accuracy in any installation orientation
- Three-channel interval recording for volume, pressure, and temperature

- Comprehensive set of revenue assurance capabilities
  - Air in Pipe
  - Reverse Flow
  - Cover Removed
  - Tilt
- Integrated shutoff valve with autonomous and remote actions for:
  - Tamper Detection alarm
  - High Flow Alarm
  - Over Pressure Alarm
  - High Temperature Alarm
- Accurate measurement with hydrogen blends to 23%

Use Case Benefits

Safety

- Remote service shutoff in dangerous gas supply conditions
  - Broken pipes at the premise due to flooding, hurricane/tornado, etc.
  - Shut off gas before a flood/storm event, if possible, or to avoid fire after the event

Financial Management

- Accurate measurement over wide flow range ensures accurate billing for high peak flow from on-demand hot water heaters and standby generators
- Field-replaceable batteries to extend field life
- Automated reads reduce Days Sales Outstanding (DSO) and improve cash flow

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Use Case Benefits *(continued)*

System Operations

- Eliminate need for truck rolls for meter reading, service shutoff
  - Reduce vehicle miles/carbon footprint, meter reader accidents/attacks
- Improve safety and avoid service outages through pressure monitoring—detect and act on over pressure situations
- Identify and reduce system losses due to theft and leaks
- Improve capacity planning – identify gas distribution system bottlenecks and take action

Customer Service

- Remote automated meter reads eliminate need to access customer property, improve billing accuracy

Get in touch

For more information and nationwide warranty terms, visit us at landisgyr.com or call us at 888-390-5733.

PRODUCT SPECIFICATIONS

Maximum Capacity/ Flow Rate (Qmax)	300 CFH (8.5- m³/h) @ 0.5" W.C. 425 CFH (12 m³/h) @ 1.0" W.C.
Minimum Flow Rate (Qmin)	1.4 CFH (0.04 m³/h)
Accuracy	Class 1% across Qmax to Qmin
Pilot Flow	0.25CFH (0.007 m³/h) with 10% accuracy
Meter Type	Temperature compensated (TC) or non-temperature compensated (NTC)
Maximum Operation Pressure (MAOP)	5 PSIG (35 kPa)
Gas Type	Second Family gases
Case Construction	Aluminum case with gray polyester powder coat finish
Gas Connections Options on 6" Centers	20 LT (for 1" nominal mating pipe) 10 LT (for ¾" nominal mating pipe) Sprague #1A (for 1" nominal mating pipe)
Measurement Technology	Time of Flight
Service Valve	Internal electrically operated Exceeds ASME B16.33-2024 valve gas-tightness guidelines and EN-16413
Display	2 line by 16 character dot matrix LCD
LCD Display Units	CCF (100 x cubic feet) or cubic meter
LCD Resolution	0.001 CCF (0.1 CF) or 0.001m3

Battery Type	Lithium Thionyl Chloride 3.6V D cell
Field Replaceable Batteries	Replace batteries while unit continues to operate
Battery Life	20-year battery life
Shock and Vibration (transit)	ANSI B109.6, BS EN 1359
Operation Temperature	-30°F to 140°F (-35°C to 60°C)
Valve Temperature	-13°F to 140°F (-25°C to 60°C)
Case Burst Pressure	75 PSI
Water Resistance	IP67
Humidity	95% non-condensing
RF Emissions	FCC Class B
Standards	ANSI B109.6, OIML R-137, EN14236 dust, gas impurities, ultrasonic signal tampering
Weight & Dimensions	~4.5 lbs 9.2"W x 6.6"H x 4.75"D
Intrinsically Safe	UL Class I, Division I, Group D, T2 IECEx Ex ia IIA T2 Ga
Safety Certifications	UL60079-0 and 60709-11, 61010-1

COMMUNICATION OPTIONS

Cellular	PTCRB, ATT, Verizon, Anterix
Wi-SUN	FAN 1.1
RF Mesh and Mesh IP	Gridstream Connect Series 4, 5, and 6 compatible

Let's Build a Brighter Future Together.

Since 1896, Landis+Gyr has been a global leader of energy management solutions. We've provided more than 3,500 utility companies all over the world with the broadest portfolio of products and services in the industry. With a worldwide team of 1,300+ engineers and research professionals, as well as an ISO certification for quality and environmental processes, we are committed to improving energy efficiency, streamlining operations, and improving customer service for utility providers.

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