xylem

DATA SHEET
GDS-10007-06



Sonix IQ™

For Residential Gas Meter Applications

The Sonix IQ ultrasonic gas meter provides pinpoint measurement of natural gas using ultrasonic technology. This solid state meter has no moving parts to replace or wear out over time. Featuring an available FlexNet® radio integrated inside the meter housing – the Sonix IQ packs in value within a compact size.

FEATURES

- 90-day hourly data log
- Built-in theft and tamper detection
- Pulse output (pulse output cable optional)
- Optional shutoff valve and pressure monitoring
- Optional FlexNet capability

BENEFITS

- Compact footprint
- Two-way communications when used with a Sensus FlexNet communication network
- Supports third party radios
- MC Canada approval AG-06456
- Continuous health checks through safety alerts and alarms

CONFIGURATION OPTIONS

- Meter only
- Meter + integrated FlexNet radio
- Meter + integrated FlexNet radio + integrated valve + integrated pressure sensor

THIRD PARTY RADIO OPTIONS

- Itron® 100G, 500G, and 550G
- Landis+Gyr Gridstream® M110 and M120
- Aclara RF3500 STAR®

Unprecedented Flexibility

The Sonix IQ provides 250 CFH or 425 CFH within the same form factor. The pulse output, scalable by user configuration, supports third-party endpoints. The Sonix IQ with the optional SmartPoint® module provides full two-way communications when combined with the Sensus FlexNet communication network.

Built-in Intelligence

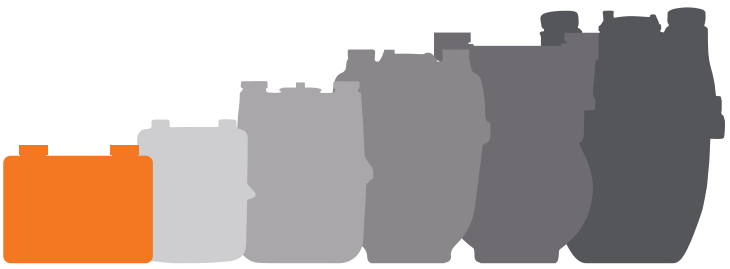
The Sonix IQ offers continuous health checks with system safety alerts, hardware alarms, and battery management alerts. The base LCD offers reading volume and alarms. Optional scolling LCD items include uncorrected volume, temperature, pressure fixed, pressure monitor, and flow rate. The Sonix IQ logs hourly data and stores it for up to 90 days at a time. The Sonix IQ offers configurable alarms that can trigger the remote shutoff valve.

Additional Features with FlexNet V2

When installed in a FlexNet V2 system, Sonix IQ has enhanced security, remote shutoff capability, and correlated readings. The remote shutoff command is sent through FlexNet with no site visit required. In addition, the volume, pressure, and temperature data in the data logs can be transmitted over FlexNet.

Lifetime Value

The Sonix IQ offers an extended battery life of 20 years. Planning for maintenance and asset management costs has never been easier. The Sonix IQ has a compact footprint enabling utilities to deploy it where other traditional gas meters do not fit. The small size creates the added benefit of incresed efficiency in shipping and storage.



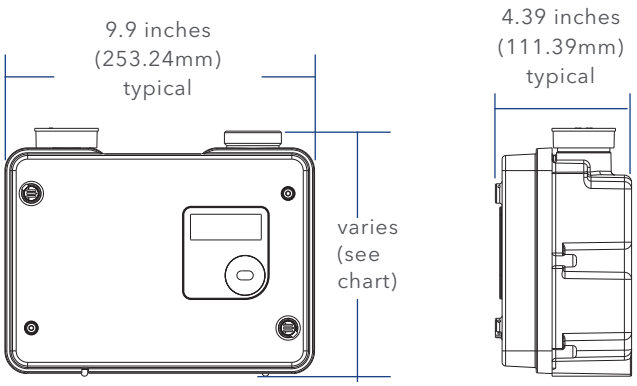
sensus
a xylem brand

Sonix IQ™

For Residential Gas Meter Applications

HEIGHT

10 LT	7.93 in. (201.41mm)	**Sprague #1A**	7.98 in. (202.81mm)
20 LT	7.89 in. (200.40mm)	**Sprague #2**	8.07 in. (205.07mm)
30 LT	8.23 in. (209.03mm)	**Sprague #3**	8.33 in. (211.67mm)
45 LT	8.28 in. (210.28mm)	**1-1/4" NPT**	7.98 in. (202.81mm)



SPECIFICATIONS

	250 Series	**400 Series**
Capacity	250 CFH at ½" differential	425 CFH at ½" differential
Range	250 CFH (7 m³/hr) at ½" W.C. Differential ±1% from 10 CFH to Qmax 250 CFH with 0.6 specific gravity gas ±2% from 3 to 10 CFH, with 0.6 specific gravity gas	425 CFH (12 m³/hr) at ½" W.C. Differential ±1% from 15 CFH to Qmax 425 CFH, with 0.6 specific gravity gas ±2% from 5 to 15 CFH, with 0.6 specific gravity gas.
Low Flow Cutoff	0.25 cfh (7 liters/hr)	
Connections	10 LT, 20 LT, 30 LT, 45 LT, Sprague 1A, Sprague 2, Sprague 3, or 1-1/4" NPT connections are on 6 in. (152 mm) center to center. Recommended mounting with connections up.	
High Resolution Readings	Volume readings shown on LCD and sent via FlexNet in 0.1 ft³ or 0.001 m³ resolution.	
Dimensions (average)	9.94 in. L x 4.38 in. W x 7.89 in. H (252.5 mm L x 111.3 mm W x 200.4 mm H)	
Weight	6.3 lb (2.86 kg)	
Maximum Allowable Operating Pressure	10 psig	
Pressure Compensation	User configurable fixed factored for operating, base, and atmospheric pressure.	
Operating Temperature	Metrology: -30° to +130° F (-35° to +55° C) ±1.0% temperature or non temperature compensating options. Valve: -13° to +130° F (-25° to 55° C) and complies with BS EN -16314:2013.	
Storage Temperature	-40° to +150° F (-40° to +66° C) *	
Valve	Ball valve type. Meets EN16314 standard. Automatic shutoff option configuration scenarios: high pressure, low pressure, high temperature, high flow, reverse flow, air in meter.	
Pressure Sensor	Accuracy and range = 1 psig or 5 psig options. ±3% full scale accuracy.	
Enhanced Security (FlexNetV2)	Secure communication interfaces using best-in-class network security including AES-CCM-256, SHA-256, and P-256 Elliptic Curve Digital Signatures and Elliptic-Curve Diffie-Hellman algorithms.	
Accuracy	Complies with ANSI B109.1, PS-G-06.	
Intrinsic Safety	Complies with applicable sections of Class I, II, III, Division 2, Group D, F, G, T4 in accordance with IAS 12.12.01/CSA C22.2 No 213.	

*Ultrasonic meters are digital electronic devices and should be stored accordingly. As with any electronic device, they should not be stored in environments exposed to extreme temperatures, moisture, or humidity.

xylem

Xylem.com | Sensus.com

SENSUS | 637 Davis Drive | Morrisville, NC 27560 | 800.638.3748

©2023 Sensus. All products purchased and services performed are subject to Sensus' terms of sale, available at either sensus.com/TC or 1-800-638-3748. Sensus reserves the right to modify these terms and conditions in its own discretion without notice to the customer. The Sensus logo is a registered trademark of Sensus.

This document is for informational purposes only, and SENSUS MAKES NO EXPRESS WARRANTIES IN THIS DOCUMENT. FURTHERMORE, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. ANY USE OF THE PRODUCTS THAT IS NOT SPECIFICALLY PERMITTED HEREIN IS PROHIBITED.