

Ultrasonic Sonix 2000

SONIX

Sonix is nothing short of a transformation in gas metering. Unlike mechanical diaphragm meters, the Sonix digital design completely eliminates moving parts, relying instead on the proven technology of ultrasonics

to measure gas flow. The digital design provides a host of additional advantages. It creates a platform for extensive diagnostic capabilities and highly accurate temperature and pressure correction. Its compact size drastically reduces installation and labor costs and space requirements. A true expansion of the principle that "less is more", Sonix's compact size and simple, no-moving parts design offers unprecedented levels of accuracy, reliability, and performance available in no other gas meter, all backed by a full 15 year warranty – the best in the industry.



Specifications

General

Meter Type: Single Path Ultrasonic
 Meter Model: Sonix 2000 imperial – Sonix 57 metric
 Connections: 2" ANSI 125 flat faced flanged
 Mounting: Inlet left, right, top, bottom
 MAOP: 60 psig
 Temperature range: -30° to +130°F ± 1% correction
 Temperature range: -30° to +150°F ambient
 Gas Application: Clean, dry natural gas insensitive to liquid, particulate, and freezing.
 Gases with Specific Gravity between 0.6 (Natural Gas) and 1 (Air).
 Filter/flow conditioning: none required

Rangeability

Capacity: 2000 cfh at ΔP of 0.5" w.c.
 40:1 ($\pm 1\%$ from 50 – 2,000cfh)
 200:1 ($\pm 2\%$ from 10 – 50 cfh)
 Low flow cutoff: 2 cfh

Physical

Display: 3/8" LCD
 4, 5 or 6-digit capacity registration
 3 digit alarm / high resolution index
 Imperial/ Metric Units
 Case: 383 aluminum alloy
 Dimensions : 11.4" x 12.6" x 8.9"
 Weight: 28.6 lbs.

Power

Voltage range: 2.5 - 3.7 vDC
 Battery: dual "D" cell lithium thionyl chloride
 10 Year battery life warranty
 Flash memory for permanent information retention without power
 Battery: field replaceable

Communications

Optical reading port requires optical probe and SONIXCOM software
 One corrected pulse and one uncorrected pulse or index pulse and alarm (user configurable)
 Pulse type: Form A open collector
 Users scaleable
 (Both pulse outputs are the same scale)
 1 cu ft/pulse
 10 cu ft/pulse
 100 cu ft/pulse or liter/pulse
 1000 cu ft/pulse or liter/pulse
 AMR type: any Form A pulse collector

Features

Warranty: 15-years meter
 10-years battery
 Diagnostics: anti-tamper, alarms detects and logs reverse flow and air in the meter
 Temperature Compensation: Internal thermistor
 Pressure Compensation: Optional Internal transducer or Fixed Factor
 Mechanical parts: none
 Data logging: hourly for 60-days

Regulatory Standards

Safety approvals: Certifications to CSA C22.2 No 213 Class 1 Division 2
 Certification to ATEX II a G EEx ia IIB T4 Zone 0, Type i
 Metrology Approvals: Measurement Canada Approval AG-XXXX to PS-G-06-E (pending)

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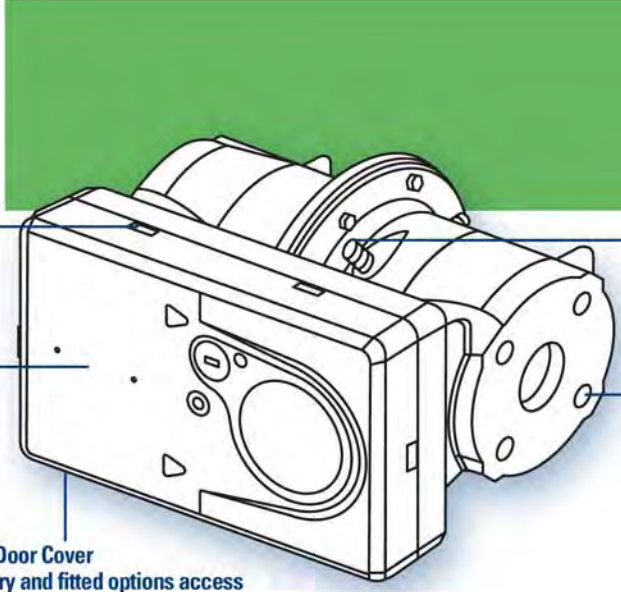
Vents and blanks
to be positioned
according to
installation

AMR/AMI
Mounting

Hinged Door Cover
for battery and fitted options access

Metering Pressure Taps
(2 possible)

2" Flange per ANSI B16.1
4 Holes on 4.75" bolt circle -
5/8" x 11 UNC 15/16" deep



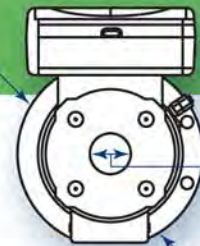
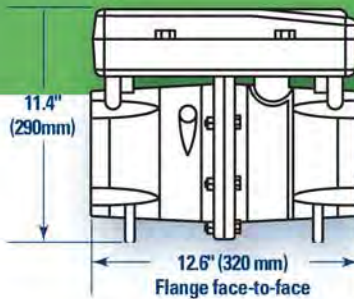
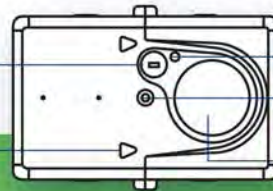
Optional Reading Port

Direction of flow arrows

Sight glass for metrology seal

Main Enclosure Screw with Utility Seal

Repositionable Display



Dia 2"
(50 mm)

Dia 8.9"
(226 mm)

SENSUS

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