



Ultrasonic Gas Meter Sonix 880

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 correction. Its compact size drastically reduces installation and labor costs and space requirements. A true expression 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 880
 Connections: 1-1/2", 1-1/2" BSP and 45LT
 Connection Configuration: top in / top out, 6" center
 Mounting: any orientation
 MAOP: 20 psig
 Temperature range: -30° to 130° F
 Contamination: clean, dry natural gas insensitive to liquid and particulate (glycol and pipe sealant)
 Filter/flow conditioning: none

Rangeability

Capacity: 880 cfh at ΔP of 0.5" w.c.
 22:1 ($\pm 1\%$ from 40 - 880 cfh)
 110:1 ($\pm 2\%$ from 8 - 40 cfh)
 Low flow cutoff: 0.42 cfh
 Capacity: 1,625 cfh at ΔP of 2.0" w.c.
 40:1 ($\pm 1\%$ from 40 - 1,625 cfh)
 203:1 ($\pm 2\%$ from 8 - 40 cfh)
 Low flow cutoff: 0.42 cfh

Physical

Display: 10 mm LCD
 6-digit capacity registration
 1-digit alarm registration user selectable units (imperial/metric)
 Case: 383 aluminum alloy
 Dimensions: 10.25" x 9.5" x 6.8"
 Weight: 12 lbs.

Power

Voltage range: 2.5 – 3.7 vDC
 Battery: single “D” cell lithium thionyl chloride
 Battery life: typically 13 years under normal conditions
 Battery: field replaceable

Communications

Pulse type: Form A
 Pulse duration: 50ms
 Pulse rate: user scaleable
 1 cu ft/pulse
 10 cu ft/pulse
 100 cu ft/pulse
 1000 cu ft/pulse
 AMR type: any Form A pulse collector
 Data logging: hourly for 60 days

Features

Warranty: 15 years meter
 10 years battery
 Diagnostics: anti-tamper alarms detect and log reverse flow and air in the meter
 Temperature Compensation: Internal thermistor
 Pressure Compensation: Optional
 Mechanical parts: none
 Proof verification: compatible with sonic nozzle provers

Regulatory Standards

Safety approvals: Certifications to CSA C22.2 No 213 Class 1 Division 2 (pending)
 Certification to ATEX II 1 G EEx ia IIB T4 Zone 0, Type i
 Metrology Approvals:
 Measurement Canada Approval AG-0514



