

# HONEYWELL AMERICAN METER.

---

AC-250NX Diaphragm Meter

---



**Honeywell**

# AC-250NX

The new standard for residential compact metering, delivering high performance measurement at an economical price. The smallest and lightest diaphragm gas meter in the US market, AC-250NX is easy to install and fits in tighter spaces, such as meter trees in apartment complexes.

Precision manufacturing through cutting-edge industrial automation yields a next-generation solution while honoring a legacy of design expertise. AC-250NX provides a highly engineered design with only a single sealing surface (O-ring) and a convoluted, injection molded diaphragm.

More than 90 million meters based on this measurement cartridge design have been sold worldwide. AC-250NX meets and exceeds ANSI B109.1 requirements.



## FEATURES & BENEFITS

- Die-cast aluminum case
- Graphite-filled phenolic valves to minimize wear
- Magnetically coupled index drive
- Security seals that indicate tampering
- 250 SCFH (7.1 m<sup>3</sup>/h) (0.60 specific gravity gas) at 1/2-inch W.C. differential
- Molded, convoluted diaphragms for smooth operation and long life
- Four chamber measurement module, 2 liters per revolution
- Anti-reverse device deters tampering
- Temperature compensation available from -30°F to 120°F (-34°C to 49°C)
- AMI/AMR compatible
- Compact and lightweight
- Single-coat polyester finish
- Single-O-ring seal
- Meets and exceeds ANSI B109.1 specifications



## PROVEN HONEYWELL TECHNOLOGY FOR THE NEXT GENERATION

- Measurement module has been in production since 1987 with over 90 million units produced.
- Allows for tight installations and more efficient freight and storage.
- Precision automated manufacturing for a highly repeatable product at a very economical price point.
- A single O-ring seal and magnetic index drive greatly reduces potential leak paths.
- Integrated anti-reversing valve arms help deter theft.
- Standard AC-250 form factors for indexes, AMR/AMI modules, and top connections allow for simple integration.

## AC-250NX MEASUREMENT MODULE

- Enhanced BK-G4 V2 (global version)
- Upgraded for ANSI B109.1
- Convoluted rubber diaphragm
- Injection molded
- Consistent and repeatable diaphragm displacement with long life cycle in a wide range of operating conditions
- Smooth stroke minimizes differential pressure peaks that increase friction and wear
- Wrinkle-free operation allows expansion and contraction without any creasing
- Eliminates “crow’s feet” in diaphragm material
- Linear valves
- Anti-reversing valve arms

## OPTIONS

- Regular or temperature compensated
- Pointer or odometer index
- 1ft<sup>3</sup>, 2ft<sup>3</sup>, or 0.05m<sup>3</sup> drive
- English or Metric indexes
- 10 LT, 20 LT, 30 LT, and other connection sizes
- 5 PSIG (345 mbar) Maximum Allowable Operating Pressure (MAOP)
- Pressure compensating indexes
- Standard or UV protected index covers
- Remote volume pulsers

## APPLICATIONS

The Honeywell AC-250NX Diaphragm Meter is the new standard for residential compact metering, delivering high performance measurement at an economical price.

## 15 YEAR ACCURACY GUARANTEE

No less than 85% of non-temperature compensating AC-250c meters will maintain accuracy of +/- 2% for 15 years. Max 1 Million ft<sup>3</sup> and excludes meters removed from service for reasons other than sampling.

See express limited Accuracy Guarantee for all terms of the Guarantee.



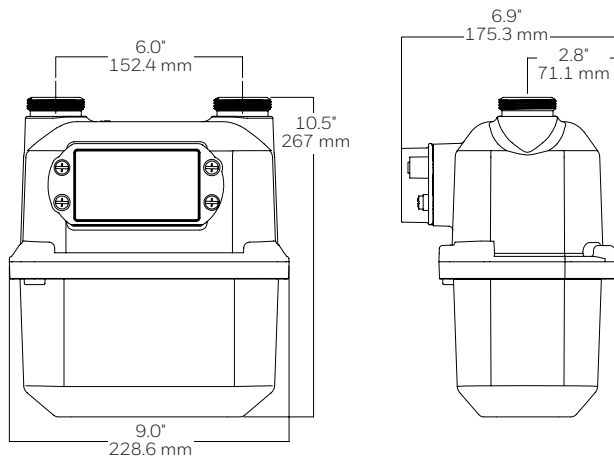
## AC-250NX DIAPHRAGM METER TECHNICAL SPECIFICATIONS

Capacity (1/2" Differential Pressure)	250 CFH
Revolutions per Cubic Foot	14.16
MAOP (PSIG)	5
Operating Temperature	-30°F to +120°F
Height	10.5"
Width	9"
Depth	6.9"

Weight	7 LBS
Packaging	96/Pallet (without AMR), 64/Pallet (with AMR)
Index Drive	Magnetic 1CF, 2CF, 0.05CM
Available Indexes	All standard AC-250 designs (Circle or Odometer)
Top Connections	10LT, 20LT, 30LT, 1A Sprague, #1 Pitts, 1.25" BSP

### AC-250NX DIAPHRAGM METER

Weight = 7 lbs. (3.2 Kg)



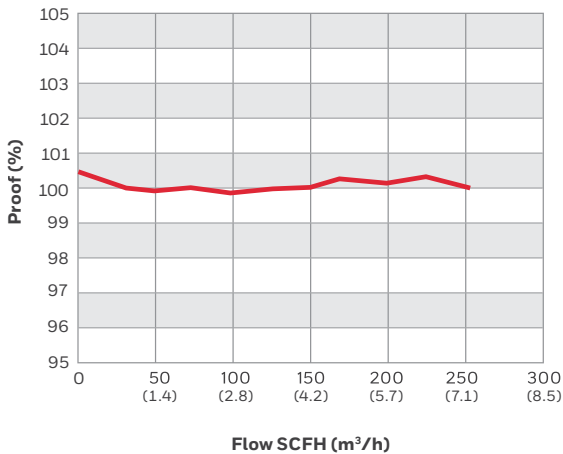
#### CAPACITIES\* (0.60 SPECIFIC GRAVITY GAS)

LINE PRESSURE PSIG (mbar)	DIFFERENTIAL INCHES W.C. (mbar)	CAPACITY SCFH (m³/h)
0.25 (17)	1/2 (1.2)	250 <sup>1,2</sup> (7.1)
1 (69)	2 (5)	598 (16.9)
2 (138)	2 (5)	597 (16.9)
5 (345)	2 (5)	598 (16.9)

1 - Propane - 158 SCFH (4.5 m³/h)  
2 - Butane - 138 SCFH (3.9 m³/h)

\*Capacities determined with connection sizes as specified by ANSI B109.1

### AC-250NX PROOF CURVE



SAI GLOBAL  
ISO 14001  
Environment



SAI GLOBAL  
OHSAS 18001  
Health & Safety



SAI GLOBAL  
ISO 9001  
Quality

#### For more information

[elster-americanmeter.com](http://elster-americanmeter.com)

#### Honeywell | Smart Energy

2221 Industrial Road  
Nebraska City, Nebraska 68410  
T +1 402-873-8200  
F +1 402-873-7616  
[honeywellsmartenergy.com](http://honeywellsmartenergy.com)

3318-AC-250NX | 08/19  
© 2019 Honeywell International Inc.

THE  
FUTURE  
IS  
WHAT  
WE  
MAKE IT

**Honeywell**