

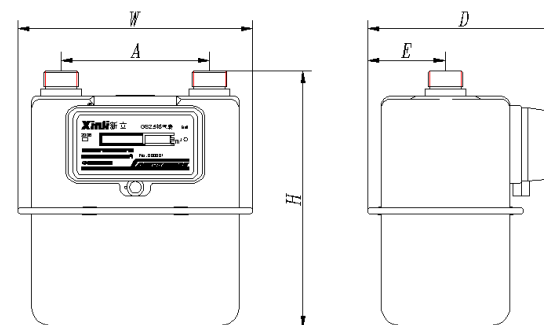
NG4 User Manual

NG4 is a positive displacement NON-TEMPERATURE compensated diaphragm type gas meter made of die cast aluminum-alloy and surface treated with epoxy polyester powder. This meter is capable of applications where reliability and pulse output is desired.

Technical Characteristics:

ITEM	UNIT	The NG4 gas meter is a NON-Temperature compensated meter.	
Nominal flow-rate(Q _n)	Ft ³ /h	141	
Maximum flow-rate(Q _{max})	Ft ³ /h	211	
Minimum flow-rate(Q _{min})	Ft ³ /h	0.040	
Maximum operating pressure	psi	7.25	
Operating temperature	°F	-4 to 122	
Cyclic volume	Ft ³ /h	0.042	
Storage temperature	°F	- 4 to 122	
Accuracy		0.1Q _{max} ≤ Q ≤ Q _{max}	± 1.5 %
		Q _{min} ≤ Q < 0.1Q _{max}	± 3 %
Pressure loss at Q _{max}	psi	≤ 0.03	
Pressure loss at Q _{min}	psi	≤ 0.009	
Max index reading	ft ³	9999999.9	
Pulse Output		Standard: 1 pulse per ft³	
		12VDC max.; 10mA max.; No Polarity.	

Dimensions:



Material	Die-Cast Aluminum Alloy
Flow direction	Left to Right Only
A	110 mm (4.33 in.)
W	205 mm (8.07 in.)
H	231 mm (9.125 in.)
D	169 mm (6.65 in.)
E	69 mm (2.72 in.)
Weight	4lb
Connection	3/4" NPT



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IMPORTANT NOTE:

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INSTALLATION

- **The piping should be arranged to prevent piping strains on the meter.**
- Check the alignment, the parallel, the distance of flanges or studs.
- **Do not use the meter to adjust for badly-fitted piping.**
- The installation torque must not be exceeded 80 N·m (59 lbf-ft).
- The mounting and leakage test has to be done by qualified personnel.
- Leak tests should be performed to ensure correct installation.
- **It is critical that piping center distance matches the center distance of the meter. See chart for dimensions.**

Do not remove any seals from the meter. Doing so will invalidate the warranty of the product and maybe the fiscal approval of the meter.

Transport the meter carefully to site. Never drop the meter to the ground. Always keep the meter upright for transport and installation.

Do not use the NG4 to measure oxygen or acetylene.

The place for mounting the gas meter should be easily accessible, dry and frost free. Avoid installing the meter in a corrosive environment.

The flow direction is indicated by an arrow on the body (LEFT to RIGHT looking at the index). The maximum working pressure and the maximum flow are marked on the front badge. **Maximum flow and working pressure must not be exceeded.**

The gas supply pipes and threads must first be blown clean with dry air. Any foreign particles can cause serious damage and loss of accuracy.

When condensation is a problem, the line on the upstream side of the meter should have water traps to prevent the condensation from collecting in the meter.

COMMISSIONING

When commissioning the supply of gas, open the valves slowly to avoid any sudden excessive pressure build-up across the meter which will result in rupturing of the diaphragm or other possible damage.

MAINTENANCE

When commissioned properly and operating under normal conditions, **no additional maintenance is necessary during the life of the meter unless necessary by local regulation and codes. Please check your local authorities.**