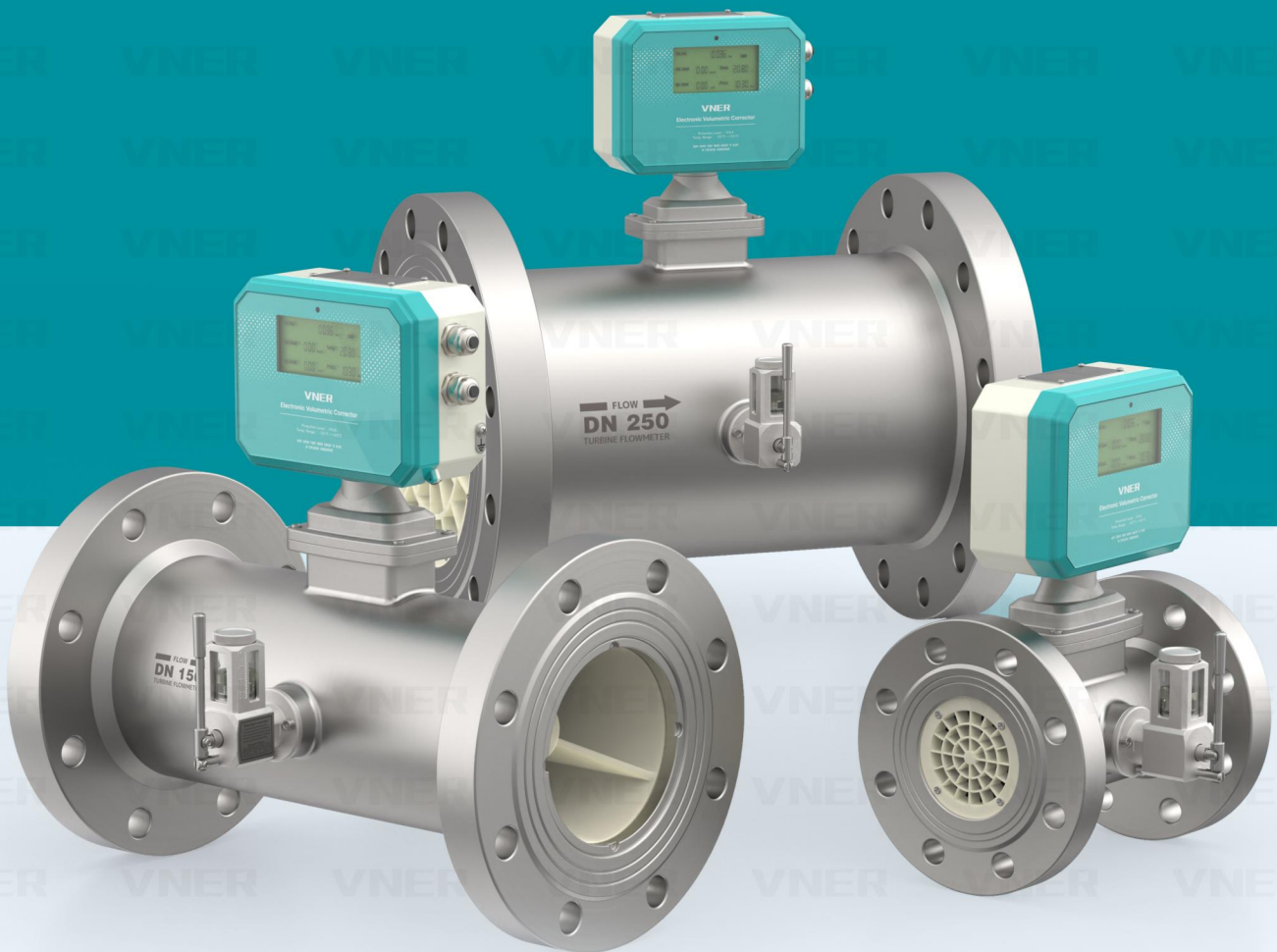


VNER

GAS-TURBINE FLOWMETER

LWQ SERIES



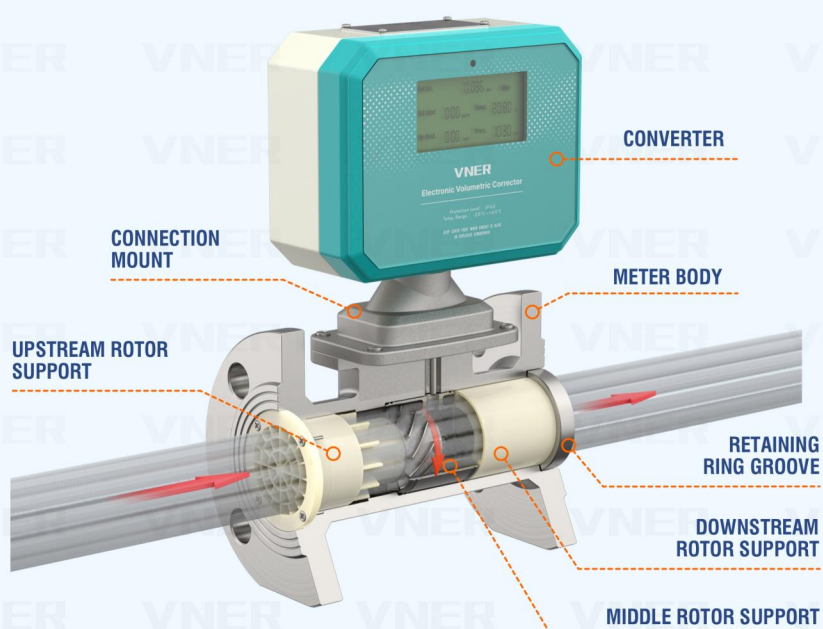
JIANGSU VNER ELECTRONIC TECHNOLOGY LTD

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1. GAS TURBINE FLOW METER WORKING PRINCIPLE

The operation of the International Gas Turbine Meter is based on the measurement of the velocity of gas. The flowing gas is accelerated and conditioned by the meter's straightening section. The straightening vanes prepare the gas flow profile by removing undesired swirl, turbulence and asymmetry before the gas flows into the turbine wheel. The dynamic forces of the flowing fluid cause the rotor to rotate.

2. WORKING PRINCIPAL



3. APPLICATIONS

- Natural gas transmission and distribution network
- Petrochemical industry
- Urban gas industry
- Electric power industry
- Gas skids
- LNG gas station

4. FEATURES

- Temp.&pressure compensation
- Segment LCD, displays normally at -30°C
- Communication: Modbus RS485
- Digital absolute pressure transmitter
- Integrated movement
- Simultaneous display flow rate, total flow volume, pressure & temp

5. FEATURES



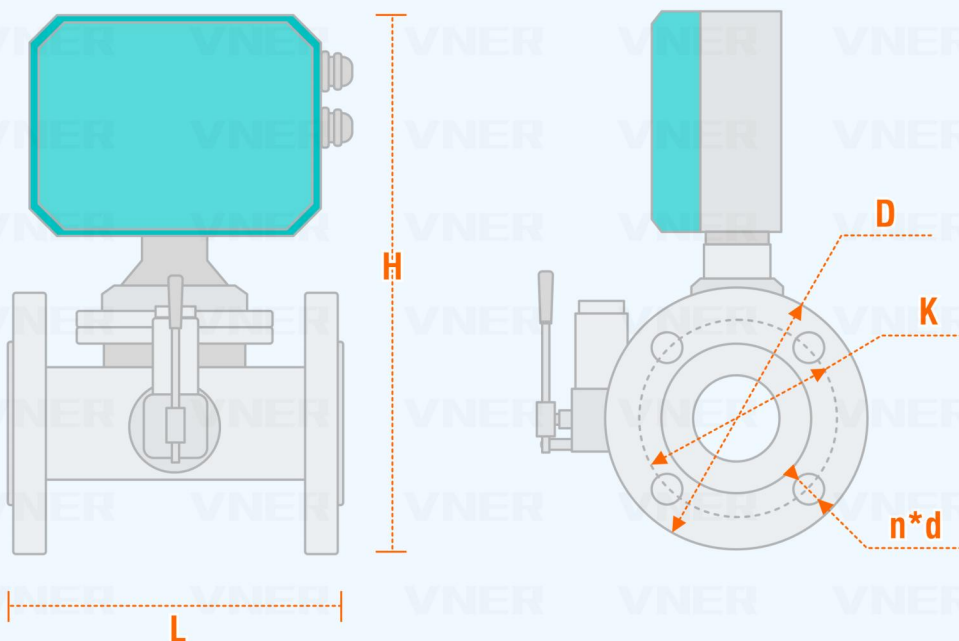
-  **IP65**
-  **CAST ALUMINUM**
-  **SHELL REINFORCEMENT**
-  **CONVERTER CAN ROTATED 270°**

6. TECHNICAL DATA

MODE	LWQ		
POWER	DC24V		
POWER CONSUMPTION	<2.4W	DC 3.6V Lithium Battery	
PROTECTION	Ip65	<2mW	
EXPLOSION-PROOF	Exia II CT4 GaInfrinsically Safe		
ELECTRIAL INTERFACE	M20*1.5 internal thread(NPT thread please contact supplier)		

VERIFICATION CONDITION	Verification Device	1.Standard table method gas flow verification device 2.Sonic nozzle gas flow verification device 3.Bell type gas flow verification device	
	Ambient Condition	Ambient Temp.	20°C
		Relative Humidity	75%
USE CONDITION	Medium Temp.	-30°C~+80°C	
	Ambient Temp.	-20°C~+60°C	
	Relative Humidity	5%~90%	
	Atmospheric Pressure	86kPa~106kPa	

7. INSTALLATION PRECAUTIONS



DIAMETER (MM)	L (mm)	D (mm)	K (mm)	H (mm)	d (mm)	n	PRESSURE
50	200	165	125	370	18	4	1.6Mpa
80	240	200	160	400	18	8	
100	300	220	180	425	18	8	
150	450	285	240	485	22	8	

7. GAS-TURBINE FLOWMETER ORDERING INFORMATION

BASE MODEL : LWQ									
Transmitter Type :									
24VDC, Without Display Pulse Output	N								
24VDC, Without Display, Analog Output	A								
Battery Powered, LCD Display, No Output	G1								
External Power Supply, LCD Display, RS485/Analog/Pulse Output	GX								
Battery Powered, LCD Display, No Output	E1								
External Power Supply, LCD Display, RS485/Analog/Pulse Output	EX								
Temperature & Pressure Compensation, Dual Power Supply, RS485/Analog/Pulse Output	D2								
Temperature & Pressure Compensation, Dual Power Supply, Analog/RS485/Pulse Output	D4								
Nominal Diameter:									
DN25	25								
DN40	40								
DN50	50								
DN80	80								
DN100	100								
DN150	150								
DN200	200								
DN250	250								
DN300	300								
DN350	350								
DN400	400								
Connection Type:									
Flanged	FL								
Threaded	LW								
Customization Available Upon Request	Z								
Rangeability:									
Standard Rangeability	S								
Extended Rangeability	W								
Customized Rangeability	Z								
Housing Material:									
Stainless Steel	S								
Carbon Steel	C								
Rotor & Ball Bearing Material:									
Anti-Corrosion ABS	S								
Aluminium Alloy	L								

BASE MODEL: LWQ										
Explosion-Proof:										
Without									N	
ExdIICT6 Gb									E	
High-Temperature & Pressure Resistant:										
Standard: 1.6MPa									N	
High-Temperature & Pressure Resistant									H ₆₀	
Accuracy:										
1.0%										10
1.5%										15
Customization Available Upon Request										Z

Note:

*DN20, DN32, DN65, DN125 only available upon request.

"X" represents numbers, which indicate different functions, please contact technical support for more information.

MANUFACTURER'S INFORMATION

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JIANGSU VNER ELECTRONIC TECHNOLOGY LTD

We adapt to local regulations, we strive to deliver quality solutions and we are constantly trying to reduce our environmental impact.

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