

PRECISION GAS MEASUREMENT

Gas Turbine Flow Meter

Stable volumetric measurement of clean, dry and non-corrosive gases for industrial, transmission and distribution networks.



NOMINAL DIAMETER

DN25-DN300

MAX PRESSURE

1.6 MPa

TEMPERATURE

-20 to +80 °C

PROTECTION

IP65 / Ex ia

TECHNICAL SPECIFICATIONS

Product type	Gas Turbine Flow Meter
Nominal diameter	DN25-DN300
Power supply	24 VDC + 3.6 V dual power supply
Body material	Stainless steel SS304 or SS316
Medium temperature	-20 °C to +80 °C
Maximum rated pressure	1.6 MPa
Threaded connection	DN25-DN50
Flanged connection	DN25-DN300
Flange standards	GB, ANSI, DIN or JIS
Enclosure protection	IP65
Output signals	Pulse and 4-20 mA
Digital communication	RS485 Modbus and HART
Oil-injection pump	Available with or without pump
Explosion protection	Ex ia IIC T6 Ga

MEASUREMENT PRINCIPLE

Gas velocity drives a precision-balanced turbine rotor. Rotor speed is proportional to volumetric flow; an electronic sensor converts rotation into frequency, pulse, 4-20 mA or digital communication signals.

KEY FEATURES

- High measurement accuracy and repeatability
- Fast response to gas-flow changes
- SS304 or SS316 construction
- Pulse, 4-20 mA and digital outputs
- RS485 Modbus and HART options
- Threaded or flanged process connections
- Optional integrated oil-injection pump
- Continuous hazardous-area gas service

SUITABLE GAS MEDIA

- Natural gas
- Air
- Nitrogen
- Hydrogen
- Coal gas
- Conditioned biogas
- LPG vapour
- Other clean, dry, non-corrosive gases

TYPICAL APPLICATIONS

- Natural-gas metering and regulating stations
- Transmission and distribution pipelines
- Petrochemical and chemical facilities
- Power generation, boilers and burners
- Biogas, industrial gas and energy-management networks

SELECTION GUIDANCE

Selection depends on gas composition, operating and standard flow ranges, minimum and maximum pressure, process temperature, connection standard and output protocol. For hydrogen, biogas, LPG vapour or other specialised gases, confirm body, internal component and seal compatibility together with the required explosion-protection configuration.