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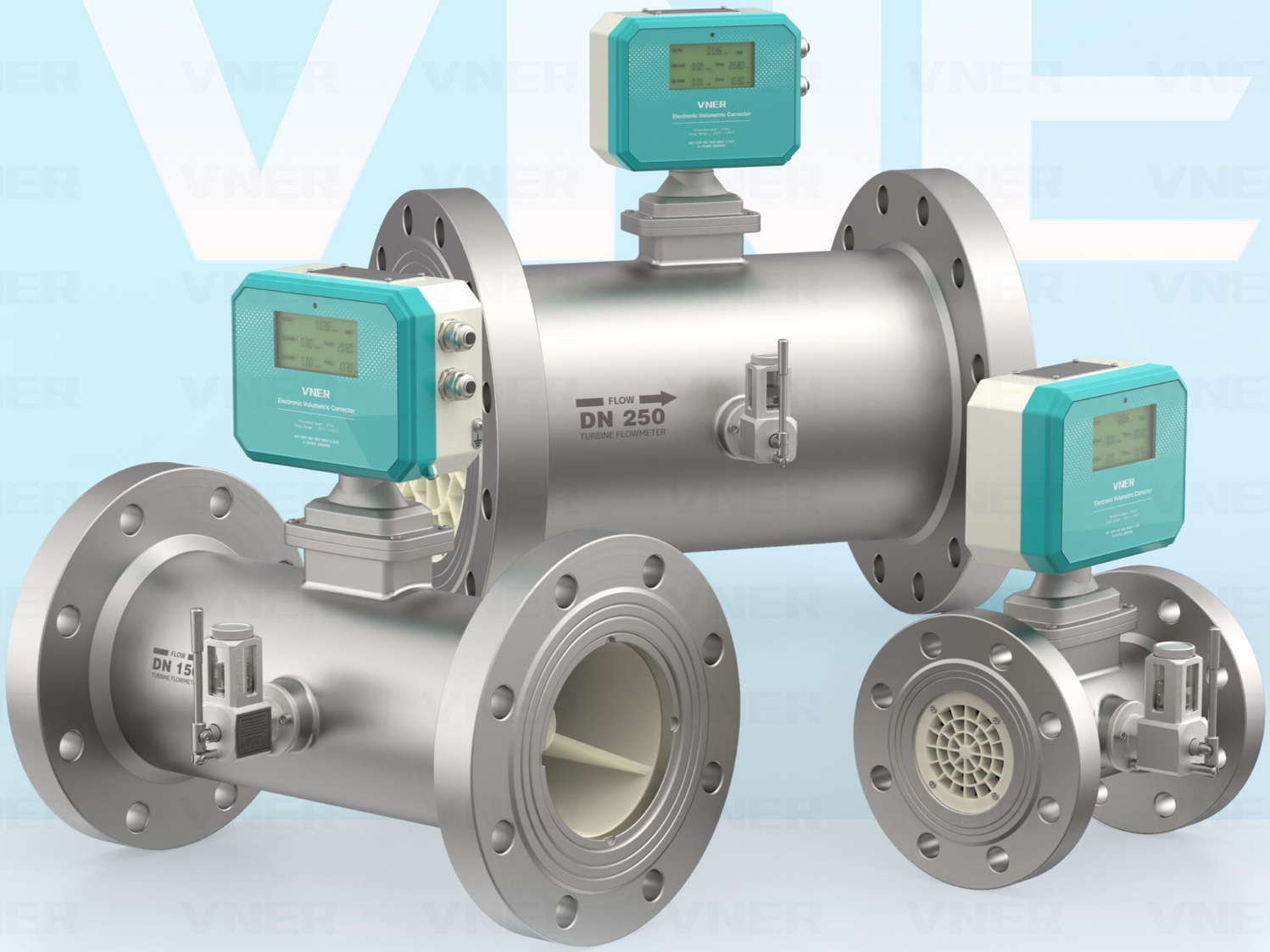

GAS TURBINE FLOWMETER

LWQ SERIES

JIANGSU VNER ELECTRONIC TECHNOLOGY LTD

WWW.VNER.COM.CN

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PRODUCT FEATURES

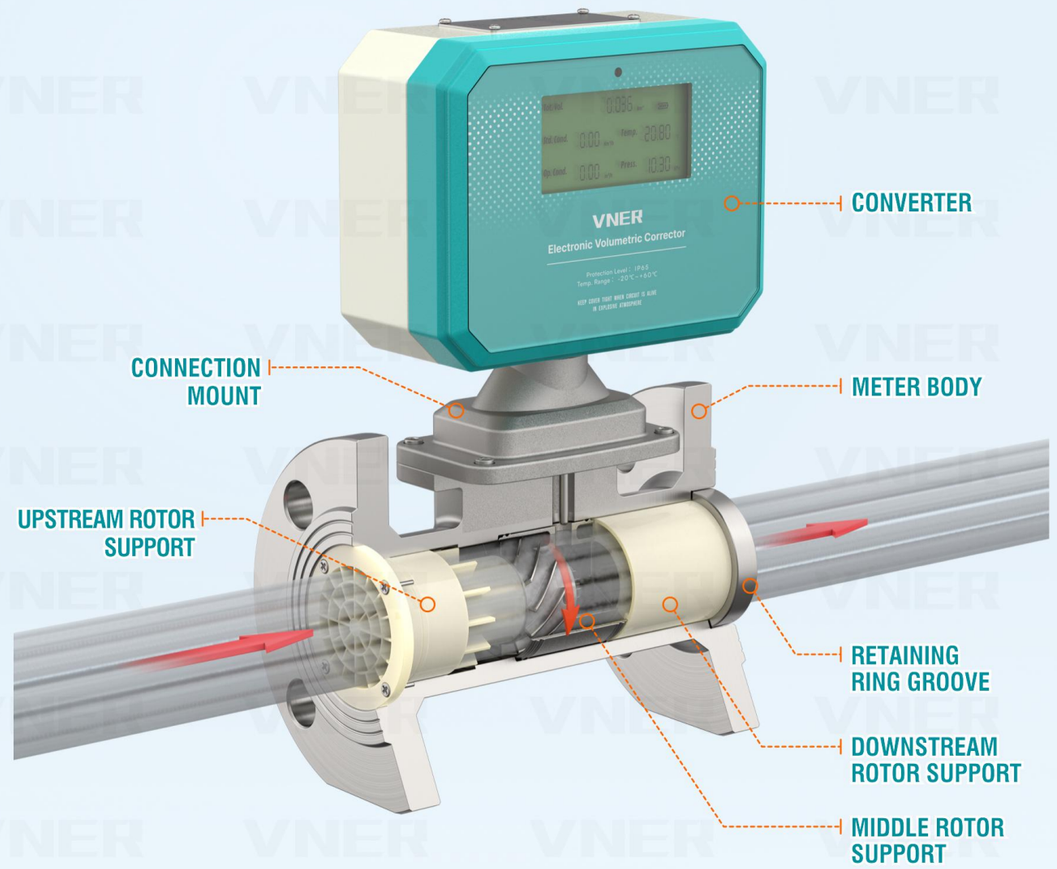
1. **Advanced Sensor Technology**
   The flowmeter features a state-of-the-art sensor with low start-up flow rate, minimal pressure loss, and robust resistance to vibration, pulsation, and corrosion. These features ensure high reliability and a long service life, even in demanding industrial environments.
2. **High-Performance Microprocessor**
   Equipped with a cutting-edge microprocessor and high-performance integrated chips, the flowmeter offers high calculation accuracy, versatile functionality, and superior performance in dynamic flow conditions.
3. **Automatic Linear Correction**
   The instrument automatically corrects the flowmeter coefficient in up to eight segments based on flow frequency signals. This feature improves the measurement accuracy to meet specific user requirements.
4. **Energy Efficient Design**
   The flowmeter operates with low power consumption, making it ideal for continuous operation. It can be powered by internal batteries for long-term use or connected to an external power source.
5. **Advanced Data Storage & Retrieval**
   The flowmeter uses EEPROM technology for reliable data storage. It supports historical data storage and retrieval, with three different recording methods available for users to choose from. This feature ensures easy access to important operational data.

TECHNICAL CHARACTERISTICS

- Nominal Diameter (DN): 25–400 mm
- Measuring Medium: Clean, low to medium flow-rate gas
- Medium Temperature Range: -30°C to +55°C
- Flow Measurement Accuracy: ±1.5% of Reading (±1% upon special request)
- Repeatability: 0.05% to 0.2% of Reading
- Standard Conditions:
  - Pressure: 101.325 kPa
  - Temperature: 293.15 K
- Functionality:
  - Measures gas temperature, pressure, and flow rate
  - Automatically compensates for flow variations
  - Displays gas flow rate under standard conditions
  - Real-time access to temperature, pressure, time, and date
- Outputs:
  - Pulse signal
  - 4-20 mA current signal
  - Control signal
  - RS485 communication (optional)
  - HART, GPRS (optional)

APPLICATIONS

- Petroleum & Chemical Industries
- Power Generation & Metallurgical Plants
- City Natural Gas Systems
- Gas Pressure Regulating Stations
- Gas Trading and Measurement
- Civil Boilers and HVAC Systems



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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