



GAS MICRO NG

PRODUCT OVERVIEW

The Gas Micro NG continues the tradition of reliability and precision-driven metering. This next-generation EVC is ready for seamless integration with either AMI or traditional systems. The ideal measurement solution for utilities seeking real-time telemetry and enhanced operational oversight.

Why Choose Gas Micro NG?

- Ensures operational accuracy and billing reliability.
- Ideal for industrial and commercial applications.
- Complies with industry standards for gas volume correction.
- Flow computer calculations in a compact EVC.

KEY FEATURES

The Gas Micro NG is designed with precision and durability at its core, delivering unmatched performance for critical gas measurement applications. Whether in industrial plants, commercial hubs, or residential settings, the Gas Micro NG adapts to your needs with flexible mounting options and customizable specifications, making it the ultimate solution for gas volume correction.

Comprehensive Data Management :

- Seamless integration with centralized management platforms enabling real-time control, historical data analysis, and operational insights.

Advanced Communication :

- Integrated quad-band, low power 4G modem (with 3G fall back) on secure communication protocols.

Flexible Operation:

- Remote diagnostics, configuration, and data acquisition, with multi-client/server TCP connections and access from any location via a web-based structure.

Versatile Integration:

- Supports multiple meter types (turbine, rotary, diaphragm) and accommodates low/high-frequency pulse inputs for enhanced adaptability.

APPLICATION

Designed to meet the rigorous demands of industrial and commercial applications, this advanced electronic volume corrector ensures accurate and reliable gas measurements, safeguarding operational integrity and enhancing billing transparency. With its robust construction, versatile features, and adherence to industry standards, the Gas Micro NG is the ultimate tool for redefining gas volume correction

Industrial Applications:

- Power plants
- Chemical producers
- Refineries

Commercial Applications:

- Shopping malls
- Warehouses
- Restaurants

PRODUCT SPECIFICATIONS

GAS MICRO NG	
Power	
EVC NANO-POWER	3.6 volt Lithium Up to 10-year battery life
CELLULAR COMMUNICATION	3.6 Volt Lithium up to 5-year battery life (when reporting 2 times per day)
Environmen	
†AMBIENT OPERATING TEMP	-40°C to +70°C (-40°F to 158°F)
ENCLOSURE	IP67, f1 outdoor suitability
Measurements	
PRESSURE MEASUREMENT	High accuracy smart digital pressure sensors. Pressure transducer can measure both gauge and absolute pressures Measurement Range: 15 to 1500 psia (1 to 100 bara) Accuracy: ±0.05% of reading
GAS TEMPERATURE MEASUREMENT	4-wire PT1000 temperature probe. Measurement range: -25°C to +70°C (-40°F to 158°F) Accuracy: ±0.15% of reading
BAROMETRIC MEASUREMENT	On board barometer option
ERROR FAULT CALCULATIONS	Configurable default values to be used when a sensor fails. This error calculation applies to: gas pressures, gas temperature, super-compressibility and corrected volume

Pulse Inputs	
PULSE INPUTS	Universal base mechanical index for instrument drive meters Accepts Low Frequency and High Frequency pulse inputs Direct NAMUR sensor interface
UNCORRECTED PULSE	Unidirectional flow, Bidirectional flow, and Reverse flow Rocking detection and compensation
Input/Output	
NON-METROLOGICAL	Analogue inputs: 3 Digital inputs: 8 Digital outputs: 4
LCD	
LCD	240 X 120 Graphics LCD screen with backlight -40°C TO + 70°C (-40°F to 158°F) operational temperature
Keypad	
MEMBRANE KEYPAD	For monitoring internal variables through the LCD; For editing; configuration
Communication	
SERIAL COMMUNICATION	Comes with Optical Interface Onboard RS-232 and RS-485
CELLULAR: 4G LTE OPTION	Type: LTE Cat 1 Connections: TCP/IP client and server, up to 4 concurrent connections SMS: Alarm and periodic reporting, up to 3 recipients SIM card holder: internal micro-SIM Antenna: 2.4 dBi internal standard; optional external high gain antenna
SIMULTANEOUS MULTIPROTOCOL OPERATIONS	Automatically recognizes Modbus RTU, Modbus TCP over native protocols
AMR/AMI	Compatible
ALARMS	Can establish connections with remote servers or wait for connections from remote clients Supports Report by Exception

REPORTING	Hourly, Daily or Monthly Supports different configuration for each recipient
MODBUS	RTU, TCP or Enron
COMPRESSIBILITY CALCULATION OPTIONS	AGA8 detailed AGA8 gross 1 AGA8 gross 2 AGA NX19
AGA 7 METER CORRECTION	K or Q factor
ENERGY CALCULATIONS	From ISO 6976 method From AGA5 mass method From AGA5 volume method
Data Archiving	
AUDIT TRAIL	Monthly 120 months Daily 365 days Hourly 365 days
LOGS	Battery consumption 120 months Alarm logs 500 records Instrument Event logs 500 records Communication event log 500 records Parameter change log 500 records
Certifications and Approvals	
HAZARDOUS LOCATION	Class I, Div 1 ABCD T3 Class I, Zone 0 AEx ia IIC T3 Ga Ex ia IIC T3 Ga Class I, Div 2 ABCD T3 Class I, Zone 2 AEx ic IIC T3 Gc Ex ic IIC T3 Gc
METROLOGY	Measurement Canada