

## Features

- Regulatory knowledge
- Qualified service staff
- Installation inspection
- System and mechanical performance verification
- Zero flow acceptance testing
- I/O certification
- Electronic flow simulation
- Flow system reinstallation evaluation
- Factory benchmark references

## Benefits

- Compliance with emission regulations such as TCEQ, AQMD and other state standards
- Meter accuracy validation
- System modeling
- Zero flow tools and test equipment
- Flow simulation algorithms
- Dimensional validation kit
- Interface protocols
- Annual or semi-annual field assessment
- Documentation and reports

# Flare Gas Flowmeter Service TCEQ and AQMD compliant

GE Industrial, Sensing is an industry leader in the design and manufacture of sensing elements, devices, instruments, and systems that enable customers to monitor, protect, control, and validate the safety of their critical processes and applications.



*Flare gas flowmeter service is one of many products offered through GE Industrial, Sensing Services.*

# GE Sensing

GE has provided flare gas flow measurement solutions for more than twenty-five years, using our well-known Panametrics product line group of ultrasonic flare gas flowmeters. This technology is widely regarded as being very well-suited for flare gas applications, due to these flowmeters' inherent lack of pressure drop, high accuracy with wide turndown, high reliability with low maintenance and fast speed of response. In addition to supplying users with flare gas flowmeter products, GE supplies a variety of services to commission, validate and provide regulatory compliance.

## Commissioning Procedure and Factory Service Assurance

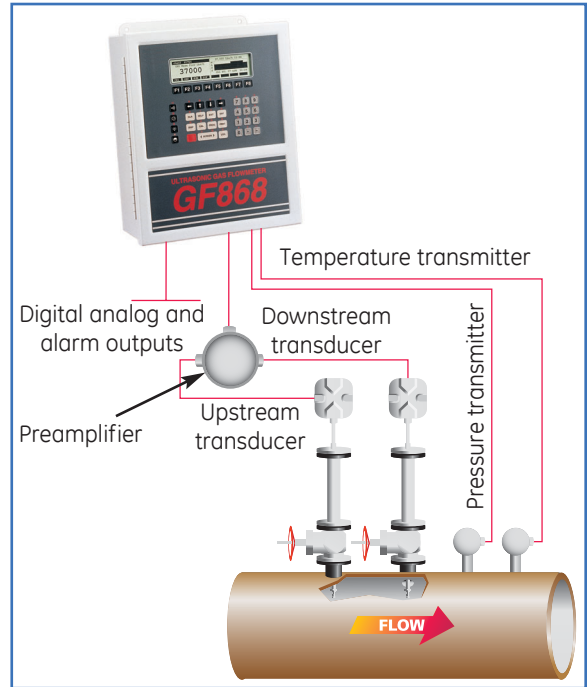
GE's service offerings are geared to support field commissioning of GE flare gas flowmeter systems and to comply with the specific requirements of regulatory mandates.

## Flowmeter Validation Service

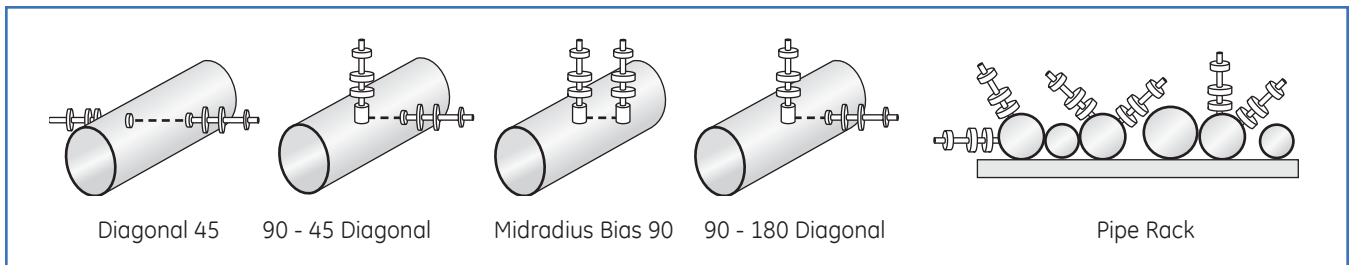
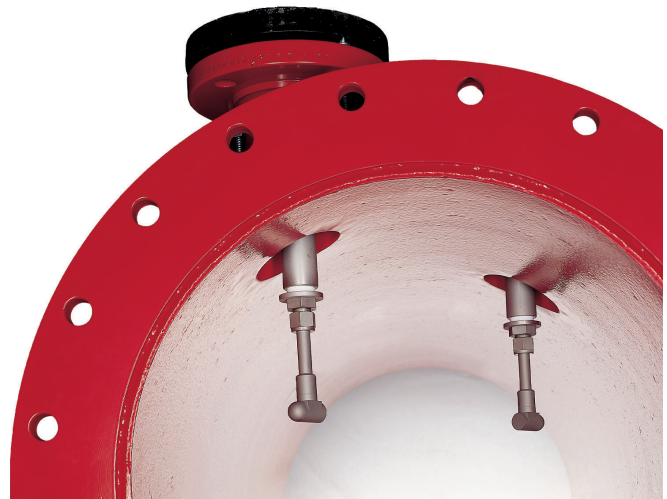
GE validates sensor accuracy and performance within regulatory specification. Our program provides documentation of compliance as well as the required regulatory measurements of your meter.

## Regulatory Compliance (Such as TCEQ/AQMD)

GE's service team is fully skilled and trained on the execution and documentation required for regulatory compliance on new or existing ultrasonic flare gas flowmeters.



Typical meter setup for standard volumetric or mass flow



Various mounting configurations permit installation in a broad range of applications

# Flare Gas Specifications

## Commissioning New Flare Gas Flowmeters

GE Industrial, Sensing Services offers flare gas flowmeter installation, per the regulatory standard, on factory-calibrated devices requiring final “on-site” factory acceptance testing.

- Dimensional surveys are also performed on new installations to convert the site dimensions to flare gas flowmeter programming parameters.
- Final field regulatory acceptance is validated, resulting in a final procedural report.

## Compliance for Existing Installations

GE’s services team is trained and capable of inspecting and certifying existing flare gas flowmeter installations in order to comply with regulatory requirements.

- GE provides dimensional site survey, physical “as is” measurements and programming calculation verification.
- Following reinstallation of equipment, regulatory compliance is verified and supported with a final report.

Parameter Reviewed/Collected		Comments	Completed [Yes or No]?
Reprogram Flowmeter with Original/Optimized Parameters		Comments:	
Collect Diagnostic Parameters		Comments:	
Review Acoustic Signals		Comments:	
Measurement Parameters			
Measurement	Value		
Velocity			
Volume			
Total			
Total-			
Diagnostics			
Parameter	Criteria	Value	Pass or Fail?
SS up	50-75		
SS do	50-75		
SNDSP	N.A.		
Tup	N.A.		
Tdown	N.A.		
DELTA	N.A.		
Peak%	N.A.		
Qup	100 min		
Qdown	100 min		
AMPup	14-32		
AMPdn	14-32		
CNTup*	N.A.		
CNTdn*	N.A.		
P8up*	N.A.		
P8dn*	N.A.		
TEMP	N.A.		
PRES	N.A.		
Flur	N.A.		
ACTVOL*	N.A.		
SVOL*	N.A.		
Tu 5"	N.A.		
Td 5"	N.A.		
DT 5"	N.A.		
Tu M*	N.A.		
Td M*	N.A.		
DT M*	N.A.		
Vant*	N.A.		
# of ERRORS	0 max		

\* These parameters are not applicable to vx68 Series flare flowmeters.

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Sample of TCEQ/AQMD GE provided documentation

## Annual Recertification (Per Requirements) TCEQ/AQMD

GE will annually or semi-annually certify the operation and functionality of your flare gas flowmeter system. This procedure can enhance required uptime and ensure regulatory compliance.

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