

FLUENTA

WE'RE FLUENT
IN FLARE MEASUREMENT
UPGRADES



FLUENTA
BIAS-90

THE TOP MOUNT CONFIGURATION

Fluenta's FGM 160 Bias-90 configuration is ideal for installations with limited space. The Bias-90 system offers accurate and reliable measurement in new or existing installations where a lateral-45 configuration is not possible due to space restrictions.

Compact Installation

In a very tight pipe rack, it can be a challenge to install the typical lateral flange configuration to measure flare gas. The FGM 160 Bias-90 system sees the transducers mounted on the top of the pipe, meaning they don't take up any lateral space. This configuration offers accurate and reliable flare gas measurement in installations with limited space availability.

Difficult Gas Compositions

A reduced measurement path length compared to a lateral installation is beneficial when measuring in high attenuation gasses or very high velocity flare lines.

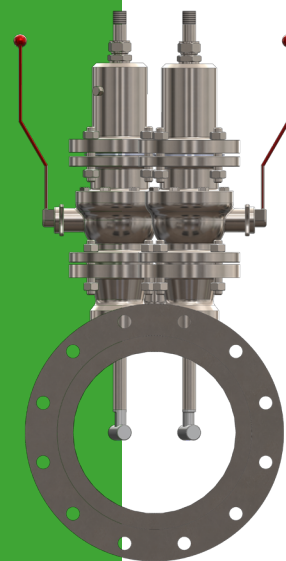
The Bias-90 approach involves inserting two transducers into the bore of a process pipe. The two transducers face each other, with one transducer measuring 'upstream', and one 'downstream'.

Upgrade Your Meter

The FGM 160 Bias-90 system allows for retrofitting into existing installations, offering you a reliable upgrade on your current flare meter with no shutdown or mechanical work required.

Fluenta also offers a range of nano-coatings for transducers to further protect them from corrosion, abrasion, and contamination. This is particularly important for intrusive transducers to minimise the impact of long-term exposure.

For more information on upgrades, installation, and transducer coatings, please contact your local Fluenta sales team or representative.

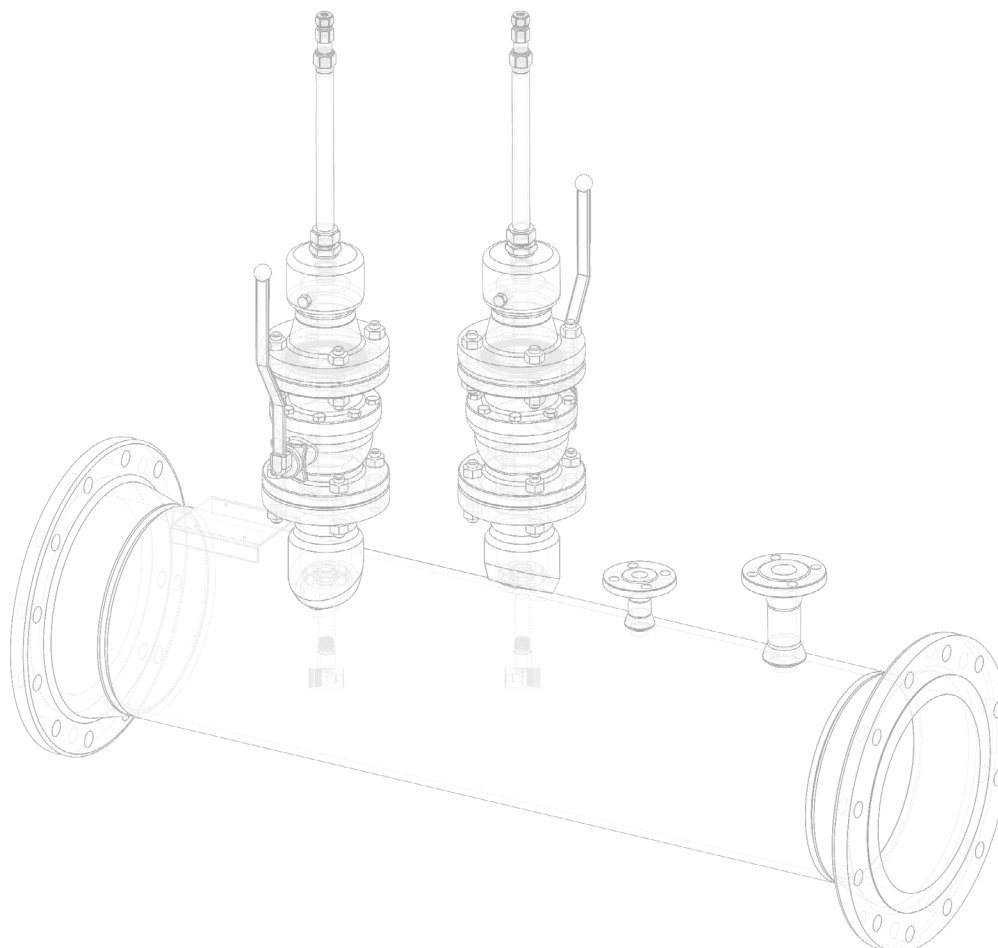


Available with **Fluenta's** award-winning transducers

Functional Characteristics of transducers	
Transducer Type	TFS-55 / FlarePhase Cryo / FlarePhase 250 / FlarePhase 350
Velocity Range	0.03 m/s - 120 m/s (0.1 ft/s - 400 ft/s) ¹
Accuracy ²	With up to 0.75% ^{3,4}
Turn Down Ratio	4000:1
Repeatability	Better than 1%
Resolution	0.0008 m/s (0.003 ft/s)
Process Connection	3"
Pressure Drop	0.05 bar for all pipe sizes and conditions

1. Velocity range dependant on pipe diameter.
2. To achieve the highest accuracy, the transducers must be installed and serviced by a certified service engineer.
3. Accuracy dependant on pipe diameter and fully developed flow profile.
4. For increased accuracy, Fluenta recommend a multi-point calibration at an accredited flow calibration facility.

For more information about our transducers including operating conditions, please visit the Fluenta website at www.fluenta.com, or contact your local team.



WE'RE FLUENT. WE'RE FLUENTA.

With over 3,000 installs across 6 continents, Fluenta has the experience to help you more accurately measure flare gas, to make better business decisions and meet the most stringent regulations.

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