

## PROCESS INSTRUMENTATION

# Siemens gas clamp-on flow meter **accredited flow laboratory test results**

[usa.siemens.com/clamp](https://usa.siemens.com/clamp)

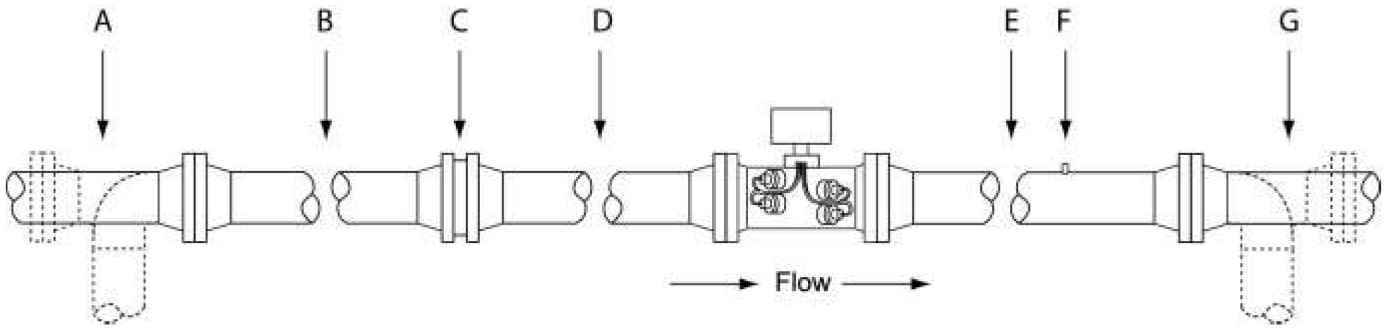
Siemens clamp-on ultrasonic flow measurement technology has been installed on natural gas pipelines for over 20 years, servicing a wide range of applications including gas storage, compressors, transmission, custody transfer and more.

Today, the new and fully digital SITRANS FS230 gas clamp-on flow meter provides the same robustness and uninterrupted natural gas flow measurement, offering advanced features and full backwards compatibility with existing Siemens clamp-on flow meter installations. With its sophisticated measurement and diagnostic capabilities, the FS230 provides the accuracy required for reliable process control and product exchange from one party to another.

The dual-path FS230 gas clamp-on flow meter installed on a 16" meter run calibrated at CEESI (Colorado Engineering Experiment Station Inc.) has been proven to meet AGA No. 9 guidelines for custody transfer. Once CEESI calibrated and validated the FS230 flow meter, the system was found to exceed custody transfer performance requirements for accuracy and repeatability at both high and low flow rates.

**SIEMENS**

# CEESI Uni-directional Calibration Configuration Details



## Meter Tube Identification

Identifier	Length	Serial Number
B - Upstream Tube	160 Inches (4064.0 mm)	Not Present
D - Inlet Tube	160 Inches (4064.0 mm)	Not Present
E - Exit Tube	69 Inches (1752.6 mm)	Not Present

## Meter Flow Conditioner Identification

Identifier	Installed	Manufacturer	Serial Number	Flow Arrow	Top Dead Center
C - Upstream Flow Conditioner	Yes	CPA 55E	5424-09	Verified	Verified

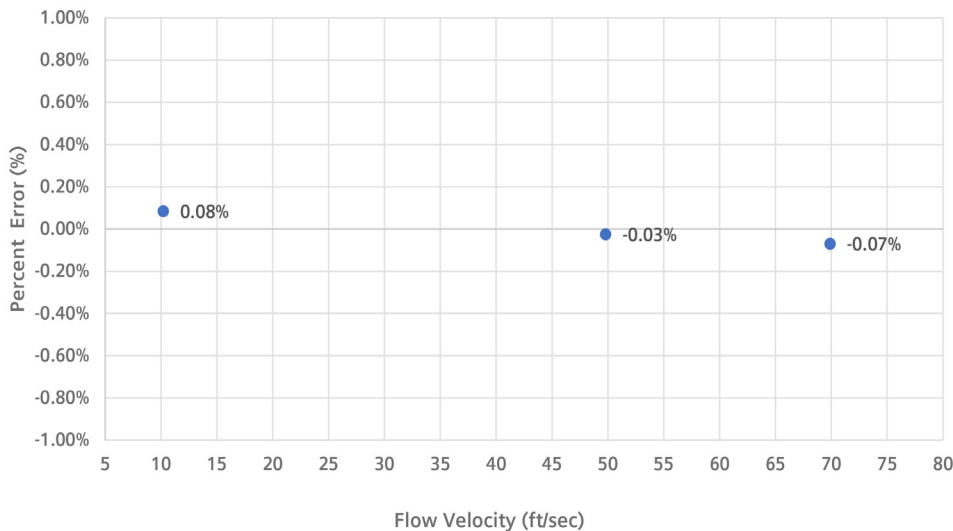
## Meter Thermowell Identification

Identifier	Distance to Closest Meter Flange Face	Quantity
F-Exit Thermowell	44 Inches (1117.6 mm)	2

## Fitting Identification

Identifier	Type
A - Entrance Fitting	Straight Pipe
G - Exit Fitting	Straight Pipe

CEESI Calibration Curve - Siemens FS230 Dual-Path Ultrasonic Flow Meter



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