

Flow Measurement

SITRANS F US Clamp-on

SITRANS FUG1010 Gas Check metering kit

Overview



The clamp-on SITRANS FUG1010 Gas Check Metering Kit is an all-inclusive solution developed especially for verifying the accuracy and performance of any brand or type of flowmeter. The kit is ideal for natural and process gas applications, including check metering, allocation, production, storage and gas fired power station applications. The flowmeter is available with FM/CSA or ATEX approval.

Benefits

- Performance check or verification of any type or brand of flow meter
- WideBeam technology provides improved accuracy over a wide range of flow velocity and operating pressure
- Tolerant of most wet gas conditions
- Immune to most pressure reducing valve noise
- Fast, easy and cost-efficient on-site measurement of any convoluted pipe from 50 ... 1200 mm (2 ... 48") up to 15.7 mm (0.62") pipe wall thickness
- Delivered as an all inclusive kit in a sturdy rolling case that holds all the equipment needed to conduct performance and verification tests (cables, multiple sensors, transmitter, etc.)

Application

The SITRANS FUG1010 Check Metering Kit is ideal for most natural and process gas industry applications, including:

- Check metering
- Allocation
- Flow survey verification
- Lost and unaccounted for (LAUF) gas analysis
- Production
- Storage

Design

- IP65 (NEMA 4X) enclosure constructed of fiberglass reinforced polyester with stainless steel hardware and polyester keypad
- Dual channel

Function

- Integral 33 button keypad and large (128 x 240 pixel) graphic display visible up to 12 m (40 ft) away
- Current, voltage, frequency and RS 232 outputs (see Technical specification section for details)
- Analog inputs for pressure and temperature
- Internal AGA-8 table for fixed gas composition is available for standard volume computation
- Upward compatibility and compliance with AGA-10 speed of sound measurement practice
- Bi-directional flow operation
- English, Spanish, German, Italian and French language options

Technical specifications

Pipe sizes	50 ... 1200 mm (2 ... 48") up to 15.7 mm (0.62") pipe wall thickness
Accuracy	±0.5%...1.0% of flow rate
Flow range	30 m/s (100 ft/s) bidirectional
Media temperature	-40 ... +60 °C (-40 ... +140 °F)
Enclosure ratings	IP65 (NEMA 4X)

See page 4/337 for complete technical specifications

Certificates and approvals

FM and CSA	I.S. Class I, II, Div 1 N-I Class I, Div 2 S Class II, Div 2
ATEX	<ul style="list-style-type: none"> • Transmitter: Ex II (1) G [Ex ia] IIC Ex II 3 (1) G Ex nC [ia] IIC T5 • Sensors: Ex II 1 G Ex ia IIC T5 Ex II 2 G Ex m II T5 (for use with flowmeter in safe area)

Selection and Ordering data

Order No.

SITRANS FUG1010 Gas Check metering kit

- FM/CSA approved
- ATEX approved

CQO:FUG-GASKIT
CQO:FUG-GASAKIT

Content of delivery

1	Dual channel dedicated transmitter (FM/CSA or ATEX approved)
1 pair	Transportable sensors C1 Pipe: od 3.500 inches, wt 0.216 inches, carbon steel
1 pair	Transportable sensors C2 Pipe: od 6.625 inches, wt 0.280 inches, carbon steel
1 pair	Transportable sensors D1 Pipe: od 10.750 inches, wt 0.365 inches, carbon steel
1 pair	Transportable sensors D2 Pipe: od 16.000 inches, wt 0.500 , carbon steel
2 pairs	Sensor cables 6m (20 ft)
2 pairs	Mounting frames
2	Spacer bar (dedicated)
1	Mounting strap
4	Couplant CC128
1 kit	Couplant/Damping Film
1	Flow case
1	Flowmeter manual
1	Laminated card set