

PROCESS INSTRUMENTATION SITRANS Gas FS-DSL Clamp-on gas flow meter

Thanks to the WideBeam ultrasonic transit-time measurement principle developed by Siemens, the SITRANS Gas FS-DSL clamp-on ultrasonic gas flow meter deals perfectly well with remote gas conditions where low power utilization is critical and space is limited. Most competing meters would be incapable of operation in such challenging environments, but the SITRANS FS-DSL can perform accurate readings even when there is less then 0.750 Watts of spare power left in the solar array. WideBeam technology has proven its accuracy and reliability in numerous field installations around the world, and now it uses less power and a lower cost of ownership right out of the box!

usa.siemens.com/clamp





SITRANS Gas FS-DSL clamp-on ultrasonic gas flowmeters provide several benefits:

- Transit-time technology ensures excellent accuracy and tolerance of most wet gas conditions
- Data extraction and analysis through AGA-8 compliant diagnostics and AGA-10 compliance for software accuracy verification
- Can be paired with Hi-Precision Mounts for permanent and direct burial installations
- Single-, dual- and four-path versions accommodate various flow profiles
- Easy installation and commissioning

The SITRANS FS-DSL is ideal for natural, specialty and process gas industry applications, including:

- Check metering
- Lost and unaccounted for (LAUF) analysis
- Allocation
- Flow survey verification
- Production
- Storage
- Gas-fired power stations

As with any other clamp-on flow device from Siemens, it is not necessary to cut the pipe or shut down operations to install the flowmeter; the transducers are quickly and easily mounted on the outside of the pipe, minimizing maintenance expenses and preventing deposits from forming.

Quality-assured features

The Siemens diagnostic software provides the SITRANS FS-DSL with diagnostic capabilities that deliver crucial information about the application and meter performance. This data can be extracted and downloaded to a PC for thorough analysis and systems check.

For additional verification purposes, a speed of sound calculation in compliance with the American Gas Association's AGA-10 standard is incorporated into the software. In addition, an internal AGA-8 compliant table for fixed gas composition is available for standard volume computation.

When installation conditions require it, the transducers can be delivered in rugged stainless steel Hi-Precision Mounts enclosures for permanent direct burial. For additional protection the transducers can be sealed with denso couplant or RTV silicone for permanent submergence.



The WideBeam principle

All SITRANS FS-DSL clamp-on flowmeters employ transit-time technology, in which the pipe wall is utilized as an amplifier to optimize the signal-to-noise ratio. This increases precision by reducing sensitivity to any change in the medium type or pressure. It also renders the flowmeter immune to most pressure-reducing valve noises. The WideBeam principle works with pipes used in the gas industry.

Flexible product offering

The SITRANS Gas FS-DSL is designed for gas flow measurement, the FS-DSL delivers market-leading accuracy of 0.5 to 1% of flow rate and repeatability of 0.25% according to ISO 11631. The 100 Hz data refresh rate maximizes diagnostic and error handling efficiency, while the intelligent pipe configuration menu compensates for various flow profile anomalies. The FS-DSL is available in single to four-path configurations.

Legal Manufacturer

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