



FLUXUS[®] XLF

Non-invasive Flow Meter for Extremely Low Flow rates

Reliable - Repeatable - Rugged

Chemical Injection for
Oil&Gas Exploration

Odorization lines in Natural Gas
Distribution

Chemical dosing in Water and
Wastewater treatment

Paint spray lines

Pulp & Paper Industry

Chemical and Petrochemical
Industries

Semiconductor Industry

FLEXIM

when measuring matters





Do you need to measure really low flows?

Turn to FLUXUS® XLF

FLUXUS® XLF is FLEXIM's non-invasive metering system for the stable and long term reliable measurement of extremely low flow rates down to 1 gal/h and below on line sizes ranging from 0.4 inch to 2 inches independent of the pipe wall thickness. As the flow sensors are mounted externally, there is no process interruption for installation. Moreover, due to their NEMA 6P rating, ATEX / IECEx Zone 1 / 2 as well as FM Class I, Div. 1 / 2 approval and being completely made out of stainless steel (316L / 1.4404 grade), the measurement system is highly rugged and withstands even the harshest and most corrosive environmental conditions.

FLEXIM is the more cost-effective and safer alternative for measuring extremely low flows of any liquid

The FLUXUS® XLF may be used on pipe types of various materials and wall thickness, and is unaffected by operating pressure.

In comparison to wetted instrumentation, the system does not suffer from mechanical stress or wear and tear by the medium and is thus not only much more cost effective, but also offers significantly higher operational safety as the risk of leaks can completely be eliminated.

Its high accuracy and repeatability at extremely low flow velocities is achieved by carefully matched and temperature compensated transducers (acc. to ANSI/ASME MFC 5.1-2011), highly sensitive electronics and sophisticated internal signal processing as well as a highly precise and traceable wet flow calibration (according to NIST standards) at FLEXIM's low flow calibration facility.

Advantages:

- Non-invasive flow measurement:
 - No process shut-downs or interruption of supply
 - No potential for leaks
 - Completely maintenance free
- Accurate and highly repeatable measurement of extremely low flows
- Applicable to any pipe and any liquid media
- Rugged and hazardous area approved transducers and transmitters (ATEX / IECEx Zone 1/2, FM Class I, Div. 1/2)
- Matched transducers, advanced digital signal processing (DSP) and efficient algorithms ensure stable measurements at very low flows

Tests with water under stable temperature conditions yield the following results:

For thin-wall (0.02-0.04") tubing, after zeroing, the meter will consistently provide better than 5% volume accumulation uncertainty (based on flowing for at least one minute) for the flow rates listed in the table below, using an 8-pass installation with Q transducers. This performance will be observed for 95% of batches (two-sigma).

Tubing OD (inches)	Low End (gph)	High End (gph)	VelLow (ft/s)	VelHigh (ft/s)
0.375	0.07	8	0.007	0.57
0.500	0.1	10	0.003	0.35
0.750	0.12	20	0.003	0.28

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