



**THORNE &
DERRICK
INTERNATIONAL**

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FLUXUS® XLF Non-invasive Flow Meter for Extremely Low Flow rates

Reliable - Repeatable - Rugged

Chemical Injection for Oil&Gas
Exploration and Production

Odourisation lines in Natural Gas
Distribution

Chemical dosing in Water and
Wastewater treatment

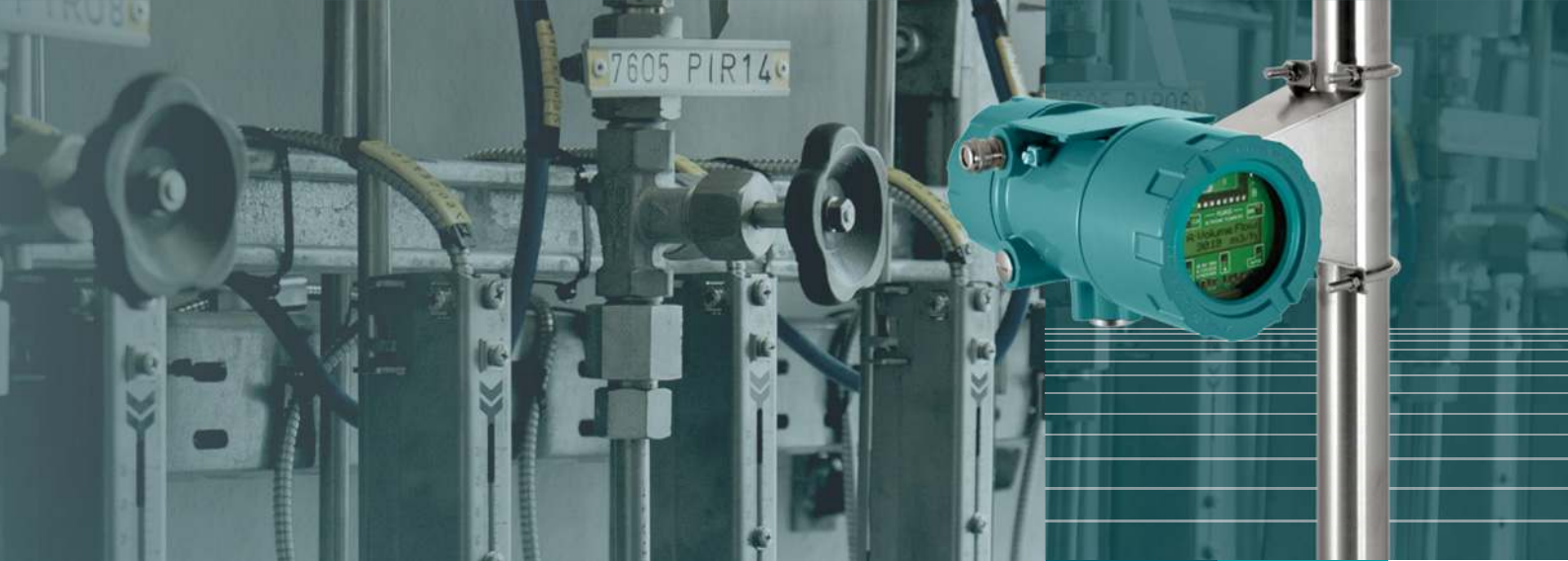
Paint spray lines

Pulp & Paper Industry

Chemical and Petrochemical
Industries

Semiconductor Industry





Do you need to measure really low flows?

FLUXUS® XLF is FLEXIM's non-invasive metering system for the stable and long term reliable measurement of extremely low flow rates down to 3 l/h and below on line sizes ranging from 10 mm to 50 mm independent of the pipe wall thickness. As the flow sensors are mounted externally, there is no process interruption for installation. Moreover, due their IP66 / 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.

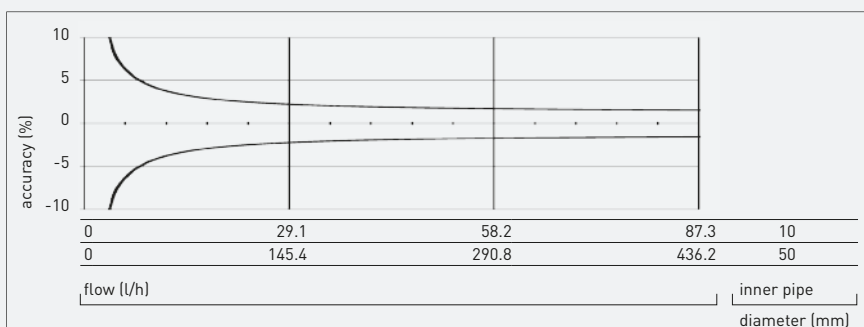
In comparison to wetted instrumentation, the system does not suffer from mechanical stress or wear and tear by the medium and is thus not only much more cost effective, but also offers significantly higher operational safety as the risk of leaks can completely be eliminated.

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
- 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

The graph below depicts the measurement uncertainty at given flow rates and selected inner pipe diameters. Applications at thin walled pipes can provide better results:



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