

FLUENTA

Flare Meter Servicing from Fluenta



**Working to the
Highest Standards**

FLUENTA AFTERMARKET SERVICES

Fluenta offers a full package of aftermarket services to keep your flare gas monitoring working to the highest standards.

Downtime on your flare gas monitoring costs money. Fluenta's inspection, maintenance and calibration service will keep you compliant with the most stringent regulations whilst keeping your flare monitoring accurate and reliable.

Accurate Information for Better Decisions

Maintenance and Calibration: why bother?

Fluenta's ultrasonic flare gas meters are accurate, reliable, and designed to withstand the harshest environments both on land and offshore.

Flare gas measurement is one of the most demanding processes in the oil and gas industry. Parameters such as gas composition, temperature, pressure, and flow rates are constantly changing in flare lines. Fouling deposits including wax, tar, carbon, liquids, and sand can also be present on the transducers in some applications.

All these factors can lead a flow meter to misreport flow, with clear direct financial

consequences, as well as the potential for enforcement action from regulatory bodies.

Inspection of meters is also vital. Whilst our meters are designed and built to be rugged, the tough environment can take its toll. Regular checks on electronics, seals, gaskets, and explosion proof housings will ensure that you're never suddenly without monitoring.

As components in the system age, the continuous wave offset can shift causing an increase in system uncertainty. Calibration corrects this offset and ensures your meter measures as well as it did when it left the factory.

Choose a trained technician

Products change over time, and our engineers work hard to make sure they know all our equipment, both older models in the field and brand-new equipment leaving the factory.

Be certain that the technician you employ is certified. A technician without latest training could be a major risk to your equipment, or worse, to your plant. Accredited service partners will produce their credentials on request. If in any

doubt, please contact your local Fluenta representative.



Correct Maintenance will:

- Reduce measurement error
- Eliminate downtime
- Predict and prevent future malfunctions
- Detect any errors in operation
- Ensure compliance with national and international regulations
- Allow for extended product warranty: please contact your Fluenta representative for more details

Servicing by a Fluenta technician is a comprehensive process, and typically involves the following steps:

- Cleaning of ultrasonic sensor probes
- Zero-point calibration of the probes
- Calculations and totalization check
- Download of ultrasonic signals and configuration list
- Analog output calibration
- Analog input for pressure and temperature calibration
- Ensure that the system firmware is up to date
- Calibration certificate
- Service report and status report as required for your quality system

Zero-point calibration

Zero-point calibration is the cornerstone of ultrasonic meter servicing. It can be done in field or at Fluenta's test and calibration facilities.

This calibration can be done without the need for additional specialist tools, and without the need for shutdown.

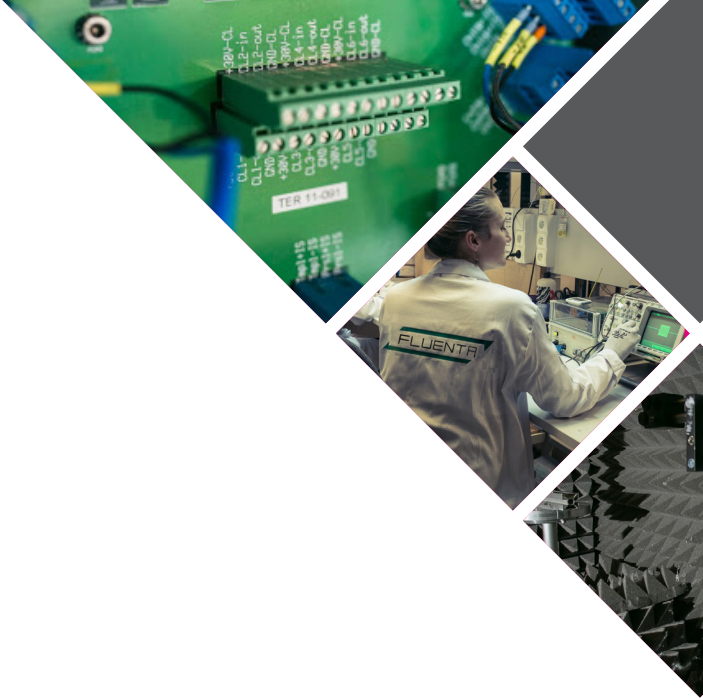
Input and output calibration

During service, inputs and outputs are checked with a certified loop calibrator and a calculated correction coefficient is set. This ensures proper system calculations and data acquisition.

Calculation Check

A calculation check ensures that all the flow meter calculations and settings are appropriate and internal clock cycles are correct.





ABOUT FLUENTA

Founded in 1985 Fluenta is the global leader in flow monitoring, measurement and sensing using ultrasonic technology. Primarily serving the Oil & Gas market where it is the leader in European offshore flare gas monitoring, the company also provides flow monitoring and measurement services to the chemical, liquid natural gas and other industries. Fluenta is headquartered in Haugesund, Norway, with offices around the world.

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