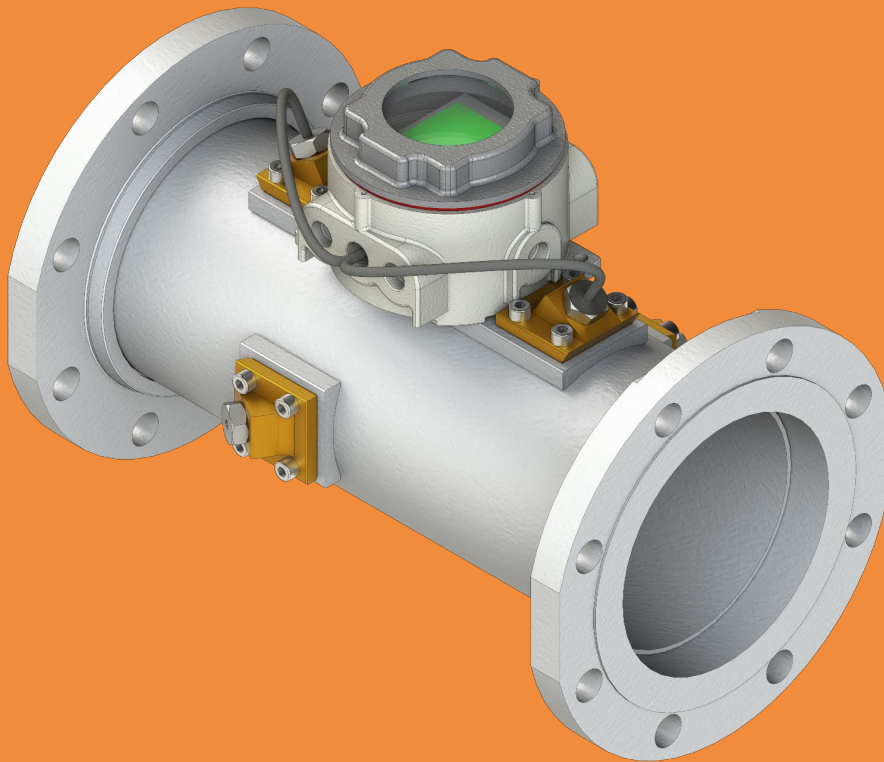


SONEX

INNOVATIVE MEASUREMENT SOLUTIONS

sonex-co.com

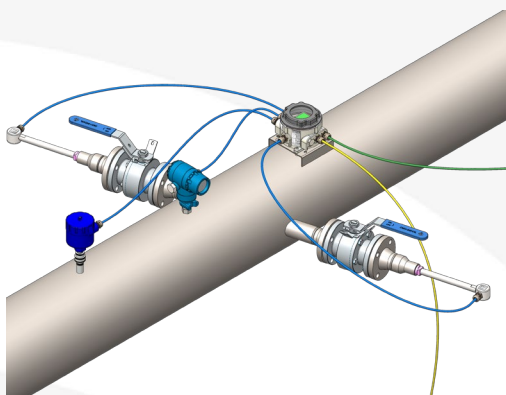
Ultrasonic Gas Flare Flowmeter



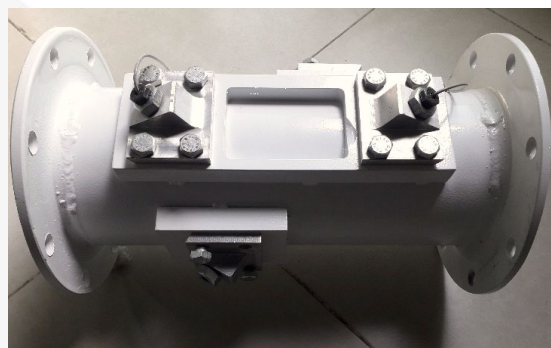
Oil & Gas | Chemical | Water & Wastewater | Energy Efficiency

Ultrasonic Gas Flare Flowmeter

Petroleum refineries, chemical plants, natural gas processing plants and a variety of other plants and sites, use gas flare to release and burn unmanageable gas. Measurement of flare gas provides the tool to manage waste gas and measure its environmental impact. Transit time ultrasound method is a standard and frequently used method to measure flare gas due to its insensitivity to gas composition, rangeability and other advantages. **SONEX Flare Gas Flowmeter** can be provided by a spool or be mounted on the site using hot-tap.



Hot-tap mounted probes



Flowmeter spool

Applications

- Measurement of flare gas volumetric flow rate and total volume
- Measurement of volumetric flow rate and total volume in low-pressure gas with variable composition

Advantages

- Ultrasonic transit time method
- State of the art signal processing algorithm for noisy environments
- Capable of speed measurement in low pressure
- Configurable
- Measurement of flow rate and total volume in both directions
- Insensitive to gas composition
- Real time measurement

Technical Data

Fluid	Flare gas
Pressure	0.7-4 bar
Uncertainty	5%
Output	RS485 / Pulse
Ambient temperature	-15°C to 60°C
Transducer frequency	200 kHz
Pipe diameter	4-60 inch
Speed range	0.05 – 120 (m/s)
Flow temperature	-20°C to 80°C
Ex-approval	Ex db [ia Ga] IIC T6 Gb*

* Test report available, certificate pending