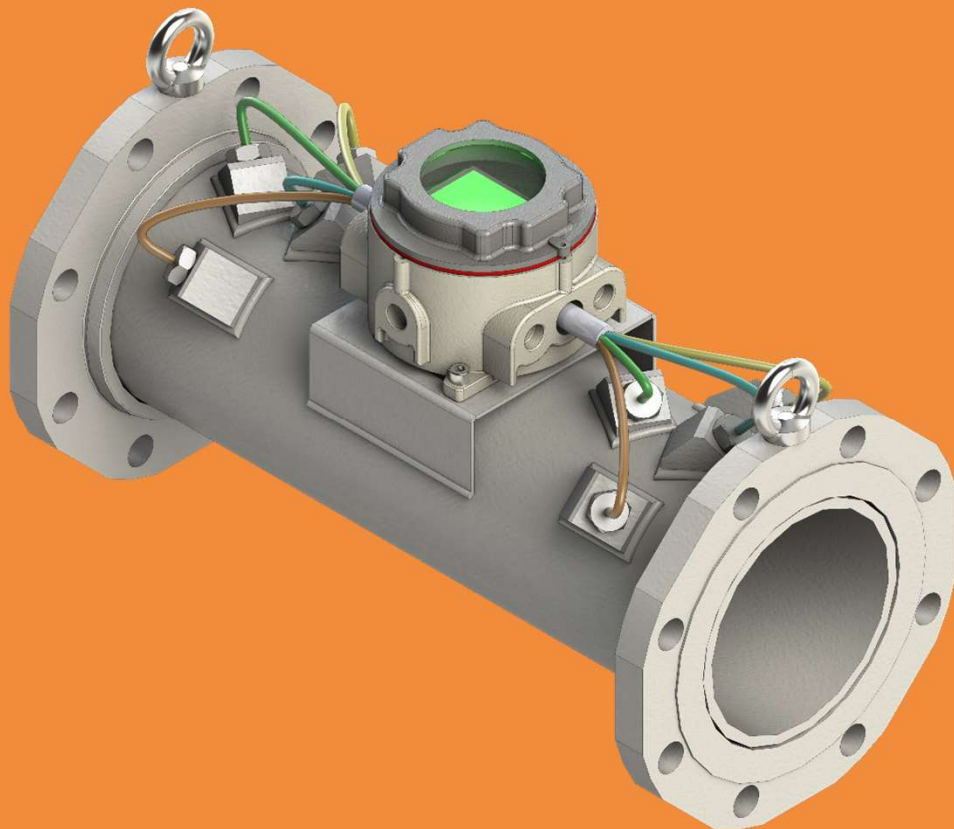




# Ultrasonic Gas Flare Flowmeter



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 sit in both Z and V configurations.



Transducers' configuration



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

### Specs

Fluid	Flare gas
Pressure	0.8-1.2 bar
Error (Accuracy)	<5% for V>0.3m/s
Supply Voltage	24(±2)V DC
Output	4-20 mA / RS485
Ambient temperature	-15°C to 60°C
Transducer frequency	200 kHz
Pipe diameter	4-18 inches
Speed range	0.3 – 8 (m.s-1)
Flow temperature	-20°C to 80°C
Ingress Protection	IP65