



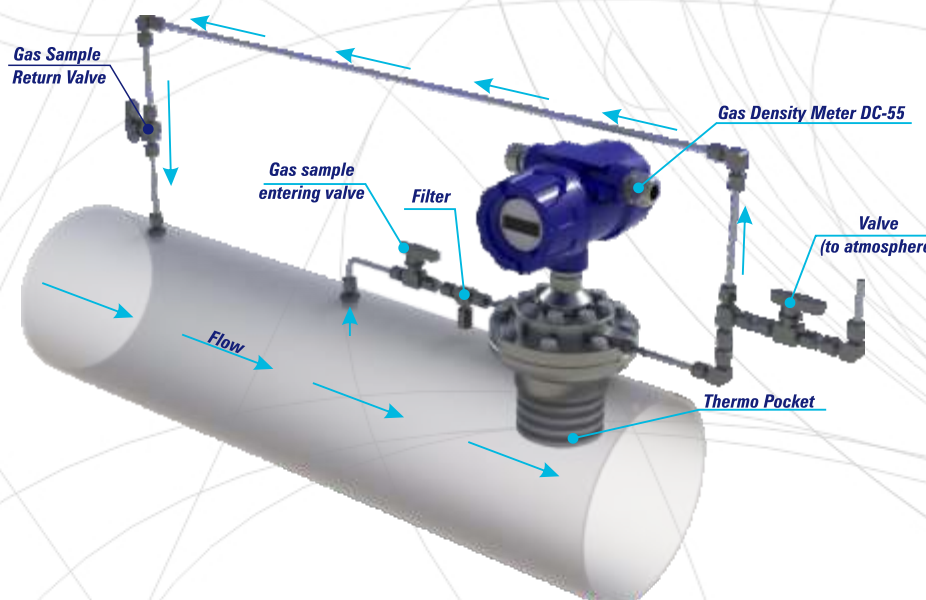
GAS DENSITY METER

DC-55

IN PROCESS TO EXCELLENCE

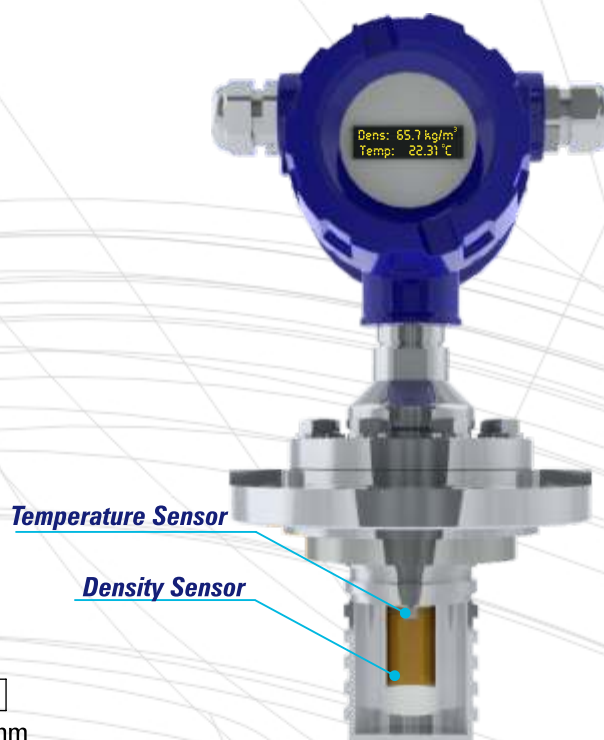
Key application

DC-55 Density Meter is designed for accurate, continuous monitoring of the technological process. High-accuracy density data for natural gas mixtures are required in entire range of pressure, temperature and compositions encountered in custody transfer. DC-55 provides a continuous monitoring of density and temperature of natural gas in flow.

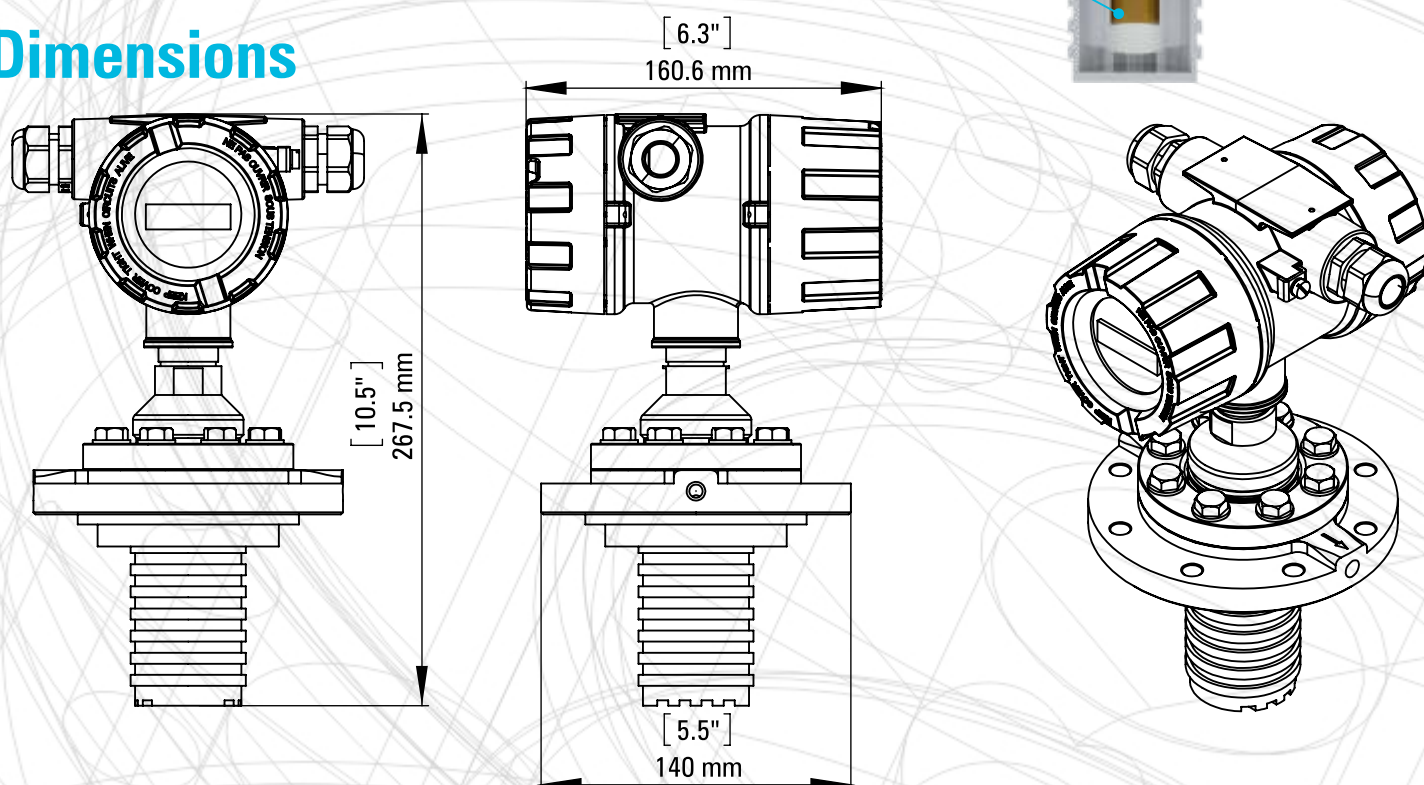


Operating principle

The gas passed over the cylinder tube resonance sensor vibrating at its natural frequency. The mass of gas in contact with the vibrating walls vibrates with the cylinder. Depends upon the gas density and, since increasing the vibrating mass decreases the natural frequency of vibration, the gas density is simply determined by measuring the change in sensor resonant frequency. This measurement method provides precise gas density values in seconds.



Dimensions



Specifications

Measuring range:

Density	1... 400 kg/m ³ (0.001...0.4 g/cm ³)
Density Standard Calibration	1...10 kg/m ³ 10...100 kg/m ³ 25...250 kg/m ³ 40...400 kg/m ³
Temperature	-40°C to +85°C (-40°F to +185°F)

Accuracy:

Density	±0.1% of reading
Temperature	±0.2°C (±0.4°F) or ±0.3°C (±0.6°F)

Repeatability:

Density	±0.02% of reading
Temperature	±0.1°C (±0.2°F)

Resolution:

Density	0.1 kg/m ³
Temperature	0.01°C (0.02°F)

Operating pressure	Up to 150 Bar (up to 2175 psi)
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Ambient temperature	-50... +60°C (-58... +140°F)
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Sensor:

Type	Vibrating element (Resonance principle)
Material	Stainless steel SS 316 L, NiSpan C, Teflon

Power supply	24 VDC
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Dimensions, weight

Height	267.5 mm (10.5 in)
Width	160.6 mm (6.3 in)
Diameter	140 mm (5.5 in)
Weight	approx.5 kg (approx. 11 lbs)

Process connection	1/4" NPT Female
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Cable Entry	Cable Glands M20
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Weather rating	IP67
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Display	Two Line LED Screen
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Digital output	Standard: RS485, Modbus or user choice of signals and protocols
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Analog output	4-20 mA up to 2 channels and HART
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Implosion protection marking	ATEX II 1/2G Ex ia IIB T4; IECEx Ex ia IIB T4 Ga /Gb
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Quality Assurance	ISO 9001:2015
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ADVANTAGES

- Direct gas density measurement in pipeline
- Automatic temperature compensation
- Increased safety level
- ATEX Hazardous area certification
- Easy installation, low maintenance

APPLICATIONS

- Natural gas custody transfer
- Gas blending
- Gas quality checking

SOFTWARE:



Multifunctional software allows to proceed the measurements results in use-convenient form;
Compatible for a Windows 7/8/10*

For more information please visit www.lemis-process.com



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