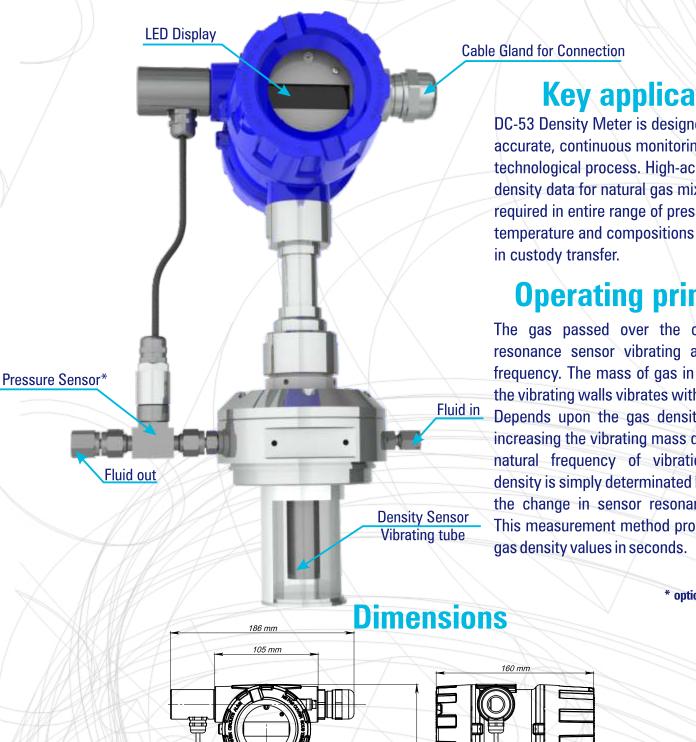


METER

DC-53/DC-53SG

IN PROCESS TO EXCELLENCE

DC-53/DC-53SG Overview



Ø 50 mm

Key application

DC-53 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

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 determinated by measuring the change in sensor resonant frequency. This measurement method provides precise

* optional for DC-53SG

Specifications

Measuring range:	
Density	0 0.001 g/cm³ (0 10 kg/m³) 0.0010.01 g/cm³ (10100 kg/m³)
Specific Gravity*	0 2
Pressure	030 bar
Temperature	-40°C to +85°C (-40°F to +185°F)
Accuracy: Density	+0.15% of roading
Specific Gravity*	±0.15% of reading ±0.1% of reading
Pressure	±0.15% of FS
Temperature	±0.5°C (±0.9°F)
Repeatability:	
Density	±0.1% of scale
Temperature	±0.1°C (±0.2°F)
Resolution:	/
Density	0.1 kg/m³
Temperature	0.01°C (0.02°F)
Operating pressure	Up to 30 Bar (up to 435 psi)
Supported measuring units	Real density: g/cm³, kg/m³, lb/gal, lb/ft³; API; SG*, Mol Weight*
	Referred density: at 15°C; 20°C; 60°F; API60; SG60*
Ambient temperature	-20 +60°C (-4 +140°F)
Sensor:	
Type	Vibrating element (Resonance principle)
Material	Stainless steel SS 316 L, NiSpan C, Teflor
Power supply	24 VDC
Dimensions, weight	330 mm (5.76 in)
Height Width	220 mm (5.55 in)
Length	160 mm (3.9 in)
Weight	approx.4.5 kg (approx. 9.9 lb)
Weather rating	IP68
Digital output	Standard: RS485, Modbus or user choice of signals and protocols
	4.20 m A /UADT up to 2 channels
Analog output	4-20 mA/HART, up to 3 channels
Analog output Implosion protection marking	ATEX II 1/2G Ex ia IIB T4; IECEx Ex ia IIB T4 Ga /Gb

APPLICATIONS

- Gas blending
- Synthesis gas mixtures
- Industrial gas purity
- Enhanced gas flow control
- Fiscal custody transfer
- Biogas composition
- Refinery fiare gas monitoring
- Portable gas measurement

ADVANTAGES

- DIN rail mount
- Small form factor for easy installation
- ATEX Hazardous area certification
- Less than 120ml fluid sample required for measurement

SOFTWARE:



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





* optional for DC-53SG

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



USA LEMIS USA, Inc.

15556 Summit Park Dr. Suite 601 Montgomery TX 77356, USA Ph.: +1 281 465 8441

EUROPE LEMIS PROCESS SIA

Marupe district, Marupe, Robeznieku street 12, LV-2167, Latvia Ph: +371 6738 3223

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E-mail: info@lemis-process.com