



DENSITY & CONCENTRATION METER

DC-50 S

for Spirit Products

IN PROCESS TO EXCELLENCE

Specifications

Measuring calibration range:

Density	0.75... 1 g/cm ³ (750... 1000 kg/m ³)
Concentration	0 - 100%
Temperature	-40... +50°C (-40... +122°F)

Accuracy:

Density	Up to ±0.0001 g/cm ³ (up to ±0.1 kg/m ³)
Concentration	±0.1%
Temperature	±0.1°C (±0.2°F)

Resolution:

Density	0.0001 g/cm ³ (0.1 kg/m ³)
Concentration	±0.01%
Temperature	0.01°C (0.02°F)

Process connection	NPT 1/2", 3/4", 1" ANSI 1/2", 1", 2", 3", 4" DN 10, 15, 25, 50, 80, 100
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Operating pressure	Up to 100 Bar (up to 1450 psi)
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Supported measuring units	Alcohol tables for IR 22 OIML Temperature in °C or °F
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Ambient temperature	-40... +50°C (-40... +122°F)
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Weather rating	IP68 for sensor and IP65 for other parts
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Power voltage:

Device	110-230V AC (50-60 Hz) or 24V DC (16-28V DC)
Sensor	6-14V DC (30 mA)

Implosion protection marking	ATEX II 1/2G Ex ia IIB T4; IECEx Ex ia IIB T4 Ga /Gb; CCE
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Digital output	Standard: RS485, Modbus; user choice of signals and protocols
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Analog output	4-20 mA, up to 3 channels
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Temperature compensation	Automatic
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Viscosity compensation	Automatic
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Factory calibration	Calibration certificates supplied as standard
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Advantages

- Continuous measurements
- High accuracy
- Simple installation
- Safe operation, low maintenance
- Easy cleaning
- Rigorous factory testing
- Compact design
- Automatic viscosity/temperature compensation

Applications

- Spirits; Alcoholics products
- Process monitoring and control
- Custody transfer

Software

- Receiving of density and temperature values from Terminal Box via cable
- Calculating of relative/referred density and alcohol strength (% vol) of product on the base of built-in tables
- Various formats for data reading
- Storage of the measured and calculated values in the database tables
- Conversation of the database tables to EXCEL format and printing the results
- Up to 16 sensors monitoring (another sensors quantity is optional)

DC-50S S-type



DC-50S G-type



PANEL PC (TOUCH SCREEN)*

or another kind show unit



*optional

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

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