



# DENSITY & CONCENTRATION METER

## DC-50 S

for Spirit Products

*IN PROCESS TO EXCELLENCE*

# Specifications

## Measuring calibration range:

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

## Accuracy:

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

## Resolution:

Density	0.0001 g/cm <sup>3</sup> (0.1 kg/m <sup>3</sup> )
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	<b>ATEX</b> II 1/2G Ex ia IIB T4; <b>IECEx</b> 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; Alcohols 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
- Conversion 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](http://www.lemis-process.com)

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