



DSG50 Series Density Meters

THE QUICK AND PRECISE DENSITY METER FOR BUSY LABORATORIES AND FACTORIES

DSG Series Density Meters from Bellingham + Stanley are available in 2 unique models (DSG40 and DSG50) offering application flexibility as well as ease of use.

The DSG Series uses Bellingham + Stanley's proven touchscreen interface offering intuitive access to controls and the METHODS System. DSG Series Density Meters include 4 common measurement standards and 1 calibration standard.

Simple

- Easy to use and clean
- Touchscreen operated
- METHODS based

Reliable

- Strong air pump for thorough cleaning
- High quality construction
- Standard Leur connectors
- Local customer support

Precise

- Excellent reproducibility
- 15 second read time
- Peltier Temperature Control
- FDA 21 CFR Part 11 compatible
- Detailed audit trails



DSG50 Density Meters FOR PRECISE DENSITY MEASUREMENTS IN THE LABORATORY

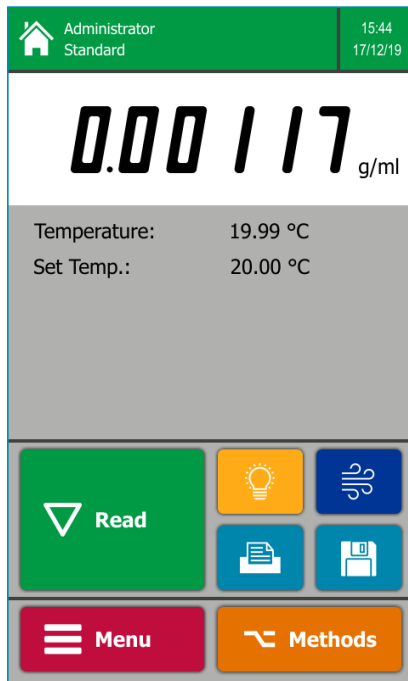


Fig 1. DSG Series GUI (Read screen)

Measurement Specifications

Range	0 - 3 g/cm ³
METHODS	Density (g/cm ³), Specific Gravity, Sucrose %w/w (°Brix), Ethanol (%w/w, %v/v), user request
Reading Type	Single shot (discreet)
Reading Time	15 seconds (not including temperature stabilization time)
Resolution	0.00001 g/cm ³
Accuracy	0.00005 g/cm ³
Precision (Reproducibility)	0.00002 g/cm ³
Temperature Accuracy	±0.03 °C
Temp. Reproducibility	±0.02 °C
Temperature Range	10 - 95 °C
Temperature Resolution	±0.01 °C
Temp. Stabilisation Time	Smart stabilisation based on sample detected

Physical Specifications

Measuring System	Oscillating U-tube with reference oscillator for enhanced drift protection
Temperature Control	Intelligent Peltier temperature control system
Wetted Parts	Borosilicate glass, PTFE
Pressure	0 - 10 bar (0 - 145 PSI)
Sample Size	Approx. 2ml
Air Drying	Integrated air pump and humidity sensor
User Interface	Full colour, 7", capacitive touchscreen with optional mouse & keyboard support
Memory	100,000+ Readings (4GB expandable memory)
Interfaces	Serial Interface, USB, LAN
Application Compliance	European & American Pharmacopoeia & various ASTM & ISO standards. Electronic Signatures
Power	90-265 VAC; 50/60 Hz; 150 VA max
Humidity	< 85% not condensing
Ambient Temp	Temperature 10 °C - 35 °C
Weight	8.8kg + 0.3kg dry air cartridge (approximate)
Dimensions	430 x 290 x 300mm (WxDxH)
Certificates	Conformity or optional Certificate of Calibration on request



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