



# DSG40 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



a xylem brand

# DSG40 Density Meters FOR PRECISE DENSITY MEASUREMENTS IN THE LABORATORY

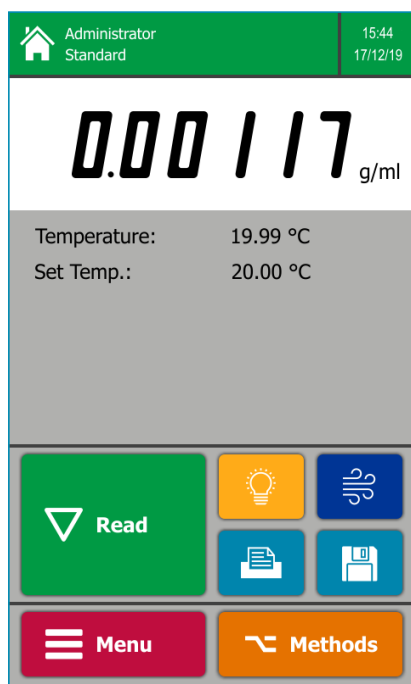


Fig 1. DSG Series GUI (Read screen)

## Measurement Specifications

<b>Range</b>	0 - 3 g/cm <sup>3</sup>
<b>METHODS</b>	Density (g/cm <sup>3</sup> ), Specific Gravity, Sucrose %w/w (°Brix), Ethanol (%w/w, %v/v), user request
<b>Reading Type</b>	Single shot (discreet)
<b>Reading Time</b>	15 seconds (not including temperature stabilization time)
<b>Resolution</b>	0.0001 g/cm <sup>3</sup>
<b>Accuracy</b>	0.0001 g/cm <sup>3</sup>
<b>Precision (Reproducibility)</b>	0.0001 g/cm <sup>3</sup>
<b>Temperature Accuracy</b>	±0.05 °C
<b>Temp. Reproducibility</b>	±0.02 °C
<b>Temperature Range</b>	10 - 95 °C
<b>Temperature Resolution</b>	±0.01 °C
<b>Temp. Stabilisation Time</b>	Smart stabilisation based on sample detected

## Physical Specifications

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



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