

xylem



DSG Series Density Meters

THE QUICK AND PRECISE DENSITY METER FOR BUSY LABORATORIES AND FACTORIES



a xylem brand

Simple. Reliable. Precise.

The quick and precise density meter for busy labs and factories

The DSG Series from Bellingham + Stanley answers a call from customers looking for highly reliable, premium quality instruments to complete a suite of instrumentation from a brand they trust. DSG Series density meters from Bellingham + Stanley are available in 2 unique models offering great flexibility as well as ease of use.

Simple to use. Easy to clean. Accurate Results.

Having an accurate density meter that produces reliable results is only part of the equation. Your instrumentation also needs to be simple to use, easy to clean and offer superior traceability. The DSG Series features a large and vibrant capacitive touchscreen, and intuitive GUI from the makers of ADP Polarimeters and RFM Refractometers. This colour coded interface guides users through common tasks and administrative setup procedures with ease.

A powerful internal air pump and integrated desiccant means the DSG Series has no need for external devices for venting after cleaning, so your precious bench space isn't taken up by needless peripherals. The desiccant condition is monitored electronically so that you can be sure your calibration and subsequent readings are not corrupted by moist air.

Peltier Temperature Control and precision ventilation ports give rapid temperature stabilisation, whilst synergy between hardware and software give accurate results in just 20 seconds.



Simple

- Easy to use and clean
- Touchscreen operated
- METHODS based
- Optional keyboard & mouse support
- Choice of 2 unique models

Reliable

- Strong air pump for thorough cleaning
- High quality construction
- Standard Luer connectors
- Manufactured in Europe
- Local customer support
- Comprehensive customisation

Precise

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

DSG Specifications

Physical Specifications

Measuring System	Oscillating U-tube
Temperature Control	Peltier
Wetted Parts	Borosilicate glass, PTFE
Pressure	0-10 bar (0 - 145 PSI)
Sample Size	Approx. 2ml
Air Drying	Integrated air pump
Bubble Detection	Automatic (combined visual - electronic)
User Interface	Full colour, 7", capacitive touchscreen with optional mouse & keyboard support
Memory	> 1000 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	320x235x218mm (WxDxH)
Certificates	Conformity or optional Certificate of Calibration on request

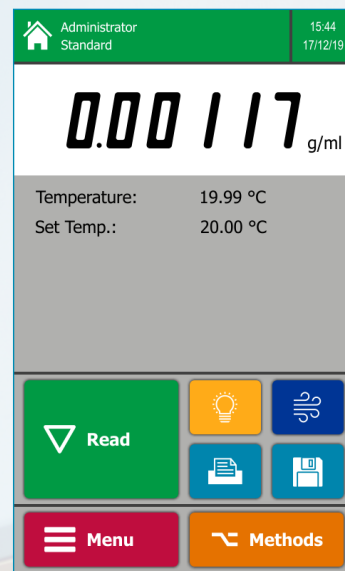
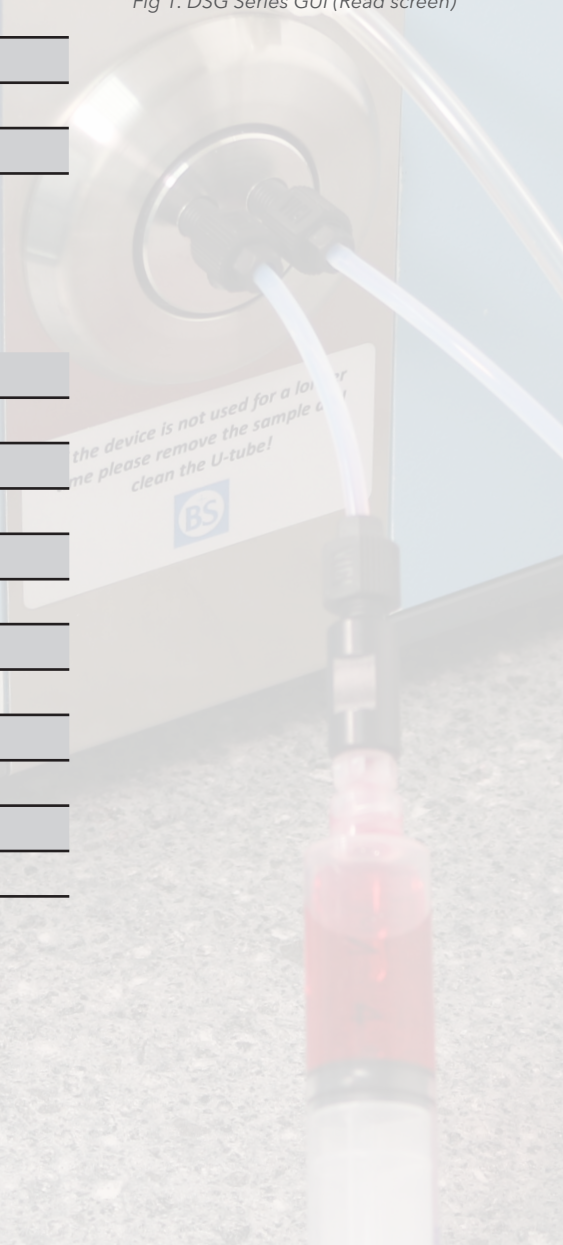


Fig 1. DSG Series GUI (Read screen)

Measurement Specifications

	DSG40	DSG50
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	
Reading Time	20 seconds	
Resolution	0.0001 g/cm ³	0.00001 g/cm ³
Accuracy	0.0001 g/cm ³	0.00005 g/cm ³
Precision (Reproducibility)	0.0001 g/cm ³	0.00002 g/cm ³
Temperature Accuracy	0.05°C	0.03°C
Temp. Reproducibility	0.02°C	0.01°C
Temperature Range	10 - 95°C	
Temperature Resolution	0.01°C	
Temp. Stabilisation Time	Smart stabilisation based on sample detected	



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

Bellingham + Stanley is part of Xylem Analytics and a leading provider of refractometers and polarimeters.

Xylem Analytics' global brands have been leaders in the laboratory instrumentation market for decades, and are relied upon every day across more than 150 countries. Working in true partnership with our clients, we listen, learn and adapt to individual needs, offering deep application expertise built upon our long history of innovation in instruments and services. Our solutions for analysis, measurement and monitoring help enable many of today's modern laboratories and industrial processes, and provide our customers the trusted and high performing solutions they need to succeed.

Xylem Analytics is part of Xylem Inc., a global company focused on solving the world's most challenging and fundamental water issues. As accurate analysis is crucial to the water industry, Xylem Analytics taps its diverse product brands for leadership in that field and beyond, providing the best laboratory and field monitoring instrumentation across a wide variety of industries.

For more information on how Xylem can help you, go to www.xylem.com



Bellingham + Stanley, a Xylem brand, operates an Integrated Management System complying with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.



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