

xylem



DSG Series Density Meters

THE QUICK AND PRECISE DENSITY METER FOR BUSY LABORATORIES AND FACTORIES


WILTEN
instrumenten

 **Bellingham
+ Stanley**

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.

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 Leur connectors
- Manufactured in Germany
- 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 |
| 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 |

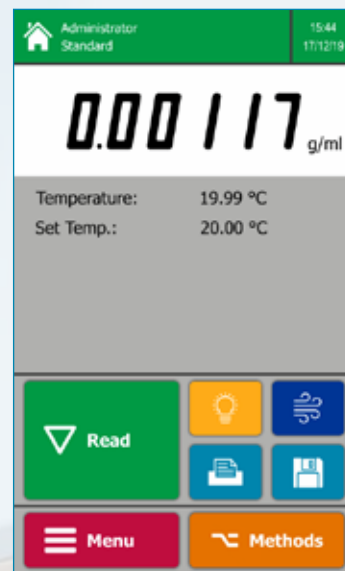


Fig 1. DSG Series GUI (Read screen)

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 | |

