

SG/PSL ANALYSER

Specific Gravity and Percent Solids Scale

Model PSL200



INSTRUCTION MANUAL

V1

Specialised Industrial Systems

3/63 Walters Drive Osborne Park W.A. 6017

Phone: (08) 9444 8005

Fax: (08) 9444 8006

Email: sales@sistec.com.au

www.sistec.com.au

SIS tec

Manufacturers and Suppliers of Process Control Instrumentation

Mounting:

A M8 Stainless Steel Eyebolt is used for supporting the SG/PSL Analyser.
A custom made hook is used for supporting the sampling container.

Operation:

Press the **ON CAL** button to initiate the display.
Initialisation takes approximately 5 seconds.
Dampened SG and PSL readings are then continuously displayed.

The SG/PSL Analyser will enter sleep mode 90secs after last button press.

- Press **ON CAL** to re-initiate display.

Low battery displayed as **Low Battery** on display.

If load is less than TARE load, **Low** will be displayed.
If load is higher than max SG, **High** will be displayed.

Calibration:

TARE Calibration

- Suspend empty sampling container from SG/PSL Analyser
- Press and hold **ON CAL** and **TARE** until **TARE CALIBRATION** is displayed
- Stabilise sampling container
- Wait 30secs for Tare calibration
- Once calibration is complete the SG/PSL Analyser will return to normal operation

The empty sampling container value is then saved as the Tare Value.

WATER Calibration

- Calibrate **TARE** before continuing with water calibration
- Fill Sampling container with clean water to sampling container overflow to ensure consistent volume
- Press and hold **ON CAL** and **WATER** until **WATER CALIBRATION** is displayed
- Stabilise sampling container
- Wait 30secs for Water calibration
- Once calibration is complete an **SG** of 1.000 will be displayed

The water filled sampling container value is then saved as the Water Value.

Measurements:

Specific Gravity Measurement

- Fill sampling container with process material to sampling container overflow to ensure consistent volume
- Clean process material from outside of sampling container
- Hang sampling container on SG/PSL Analyser to determine Specific Gravity of process material

Percent Solids Measurement

- Enter Specific Gravity of Dry Solids (SS)
 - Press and hold **SS**, adjust using the **UP** or **DOWN** buttons
- Fill sampling container with process material
- Clean process material from outside of sampling container
- Hang sampling container on SG/PSL Analyser to determine Percent Solids of process material

The SG/PSL Analyser is supplied with an 8 litre Stainless Steel sampling container with overflow spill holes. If an equivalent sampling container is used, ensure levels for water calibration and process material are the same.

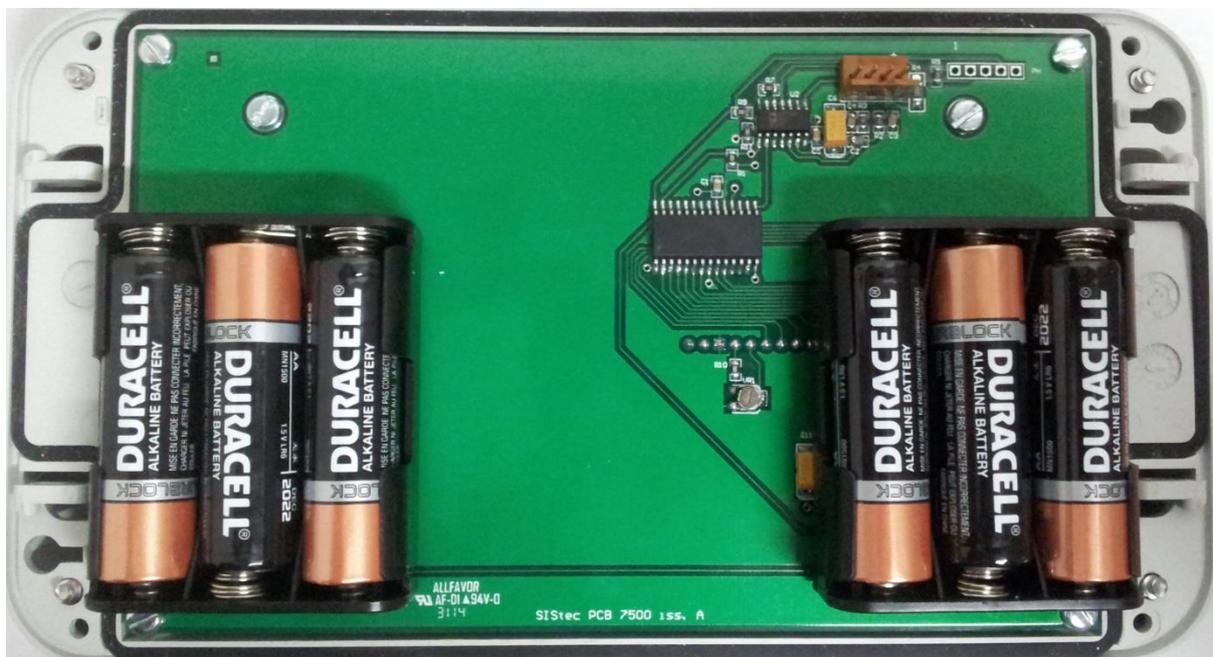
Always use the same sampling container for calibration and SG/PSL measurements.

Maintenance:

Replacing Batteries

- Undo the 4 x screws, located underneath the hinged panels
- Remove back casing and unplug the 4 way load cell connector
- Replace batteries with only AA (See Figure 1)
- Ensure battery orientation is correct (Spring to – negative)
- Reconnect 4 way load cell connector and replace back casing

Figure 1



Specifications:

- Load: 1 to 30kg
- Batteries: 6 x AA (Batteries included)
- Long working life
- Automatic sleep mode to reduce battery loss
- 316 Stainless Steel hooks and eyebolts
- ABS Housing
- SG continuously displayed
- SG Range 1.000 to 9.999
- PSL continuously displayed
- PSL Range 0 to 100 %
- 16 Digit Display
- 24 Month Warranty