GEOKON®

Model GK-406-MUX

VW Analyzer Load Cell Multiplexer

Quick Start Guide

Model GK-406 Manual

For those familiar with Geotechnical instrumentation and its installation, the following guide may be used. For more detailed information than is provided in this Quick Start Guide, please refer to the Model GK-406 Instruction Manual.

FIGURE 1: *Load Cell (Left), GK-406-MUX (Middle), and GK-406 VW Analyzer (Right)*

1. SETUP

1. Remove the protective silicon cover from the Model GK-406-MUX Multiplexer and install two AA alkaline batteries into the rear battery compartment.
2. Install the multiplexer back into the protective silicon cover.
3. Connect the Model GK-406 VW Analyzer to the multiplexer using the supplied cable.
4. Connect the load cell to the multiplexer.

2. OPERATION

1. Press the power button just under the left side of the readout screen on the VW Analyzer.
2. Select or add a user and the home screen is displayed.
3. Select **Read & Record** and then **Site/Sensor**.

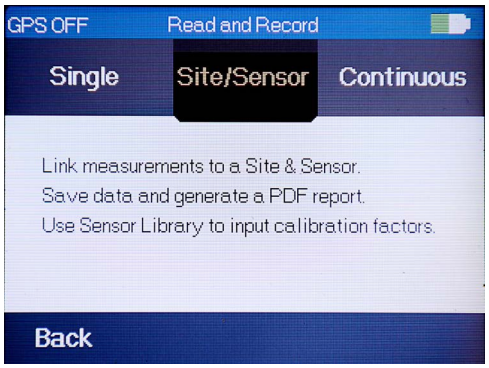


FIGURE 2: *Read & Record (Left) and Site/Sensor (Right) Selections*

4. Select **Add Site** from drop down menu. Enter a site name, and then **Save**.

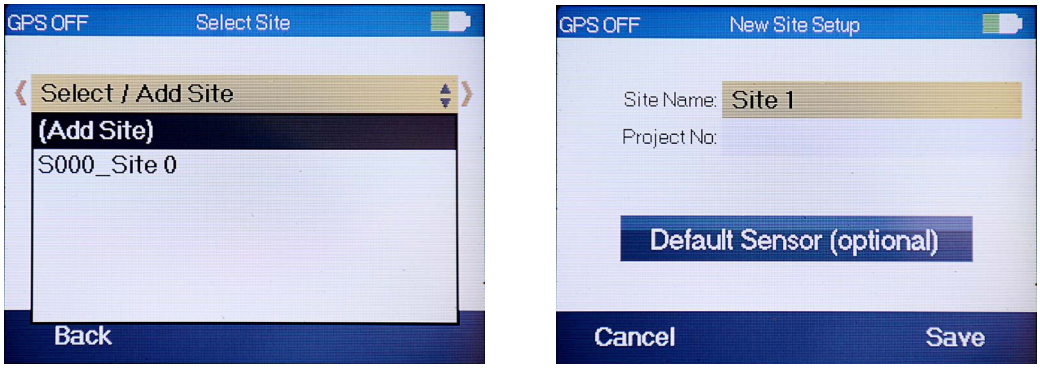


FIGURE 3: *Add Site Selection (Left) and Naming the Site (Right)*

5. Select **Next** and then select **Add Sensor** from the drop down menu.

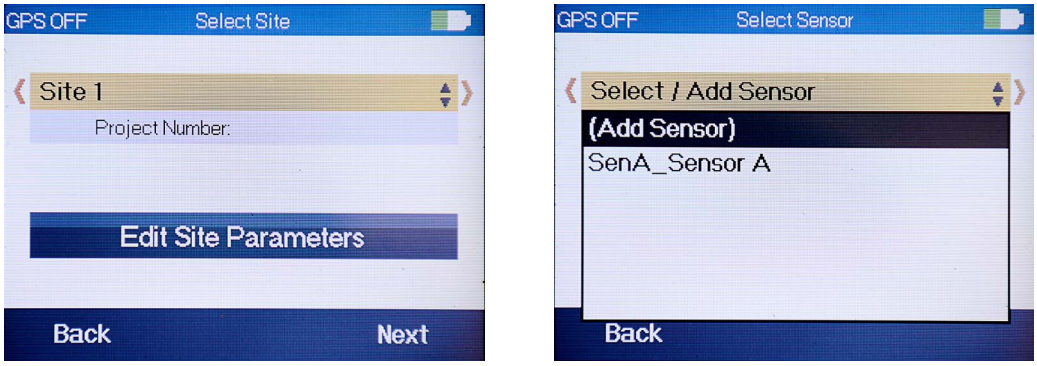


FIGURE 4: *Next (Left) and Add Sensor (Right) Selections*

6. Enter a sensor name, select **Geokon** as the manufacturer. Select the applicable sensor model "**GK 4900-#"** (**-3** for a 3-gauge, **-4** for a 4-gauge, **-6** for a 6-gauge). Enter the serial number. Select **Next**.

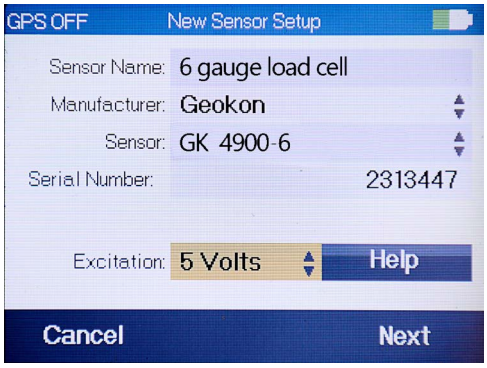
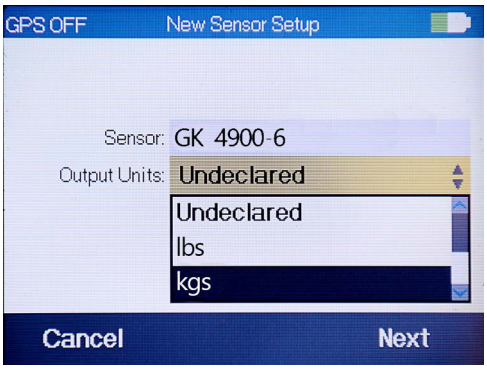


FIGURE 5: *Enter Applicable Sensor Information (6 Gauge Load Cell Example)*

7. Select the output units of the load cell and press **Next**. Enter a baseline digit reading (field zero), enter the gauge factor from the calibration sheet. Use default batch factor of 1. Select **Save**.



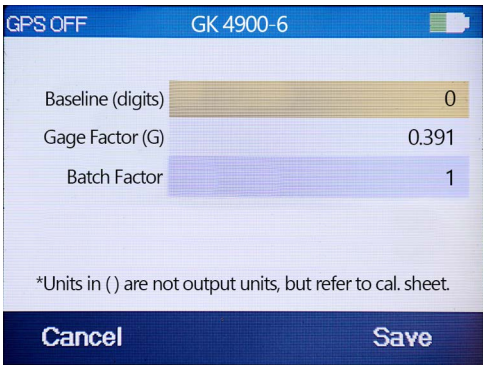
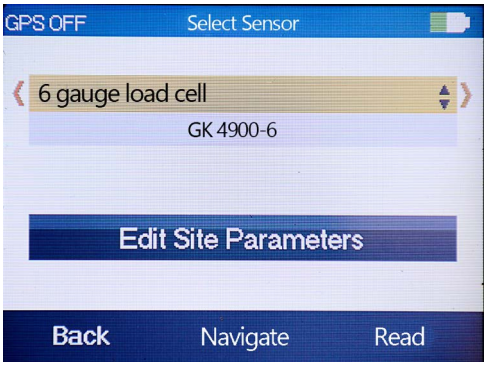


FIGURE 6: *Enter Sensor Reading Information*

8. Select **Read** and the readout screen is displayed, it will take a few seconds to read all gauges and provide a response on the screen.



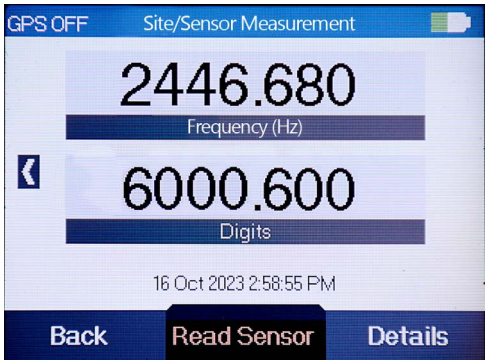
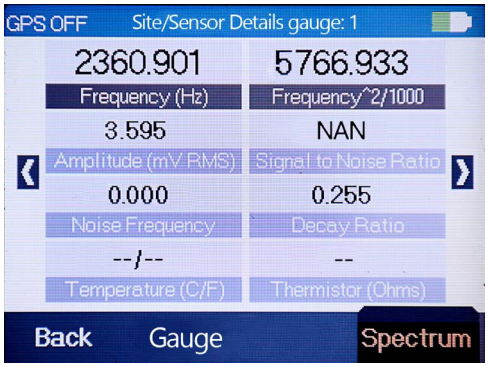


FIGURE 7: *Site/Sensor Measurement*

9. To see individual gauges, average, or load output select the **Details** button. At the top of the screen you will see **"Site/Sensor Details gauge 1"**. The over arrows can be used to view each gauge in the load cell, with the last selection being the average.



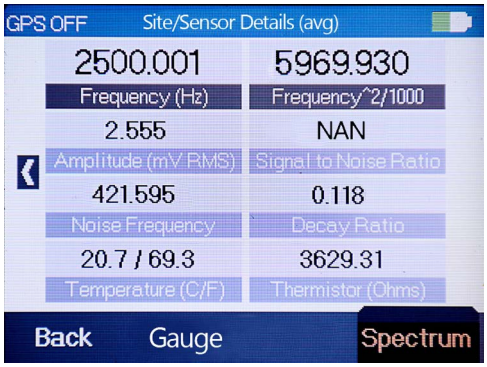


FIGURE 8: *Individual Gauge Readings (Left, Showing Gauge 1) and Average Reading (Right)*

10. Spectrum and time graphs are also available from the **Details** screen.

3. OUTPUT IN LOAD/DISPLAY SETUP

By default, the screen will display two outputs, one in frequency, and one in digits. This can be changed within the settings menu to display the load cells engineering units output as follows:

1. Select **Settings** from the main menu. Select **Measure**.

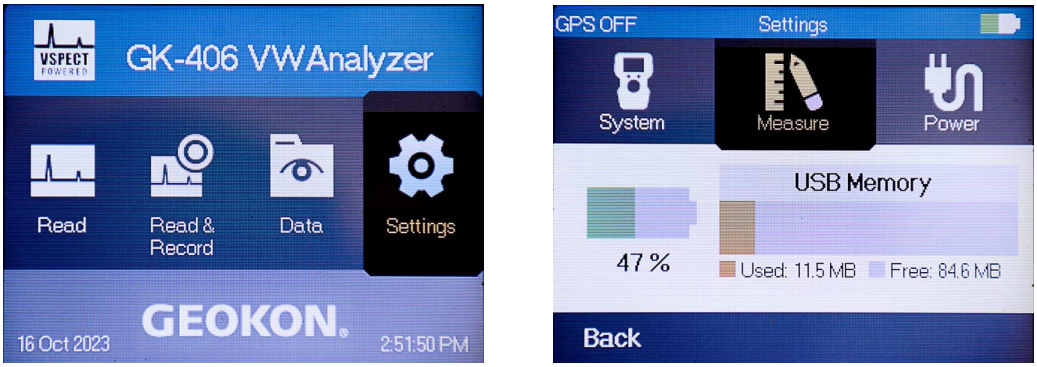


FIGURE 9: *Settings (Left) and Measure (Right) Selection*

2. Select **Measurement Display**. You will now see **"Display #1"** and **"Display #2"**. Both have drop down menus to select the output displayed in each window. We recommend one display remain as digits (raw data), and one output be set for engineering units (load). Select **Save**.

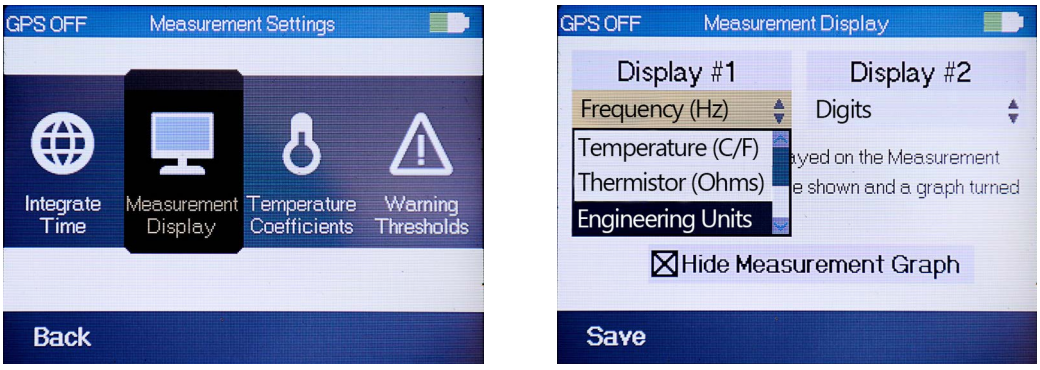


FIGURE 10: *Measurement Display Selections*