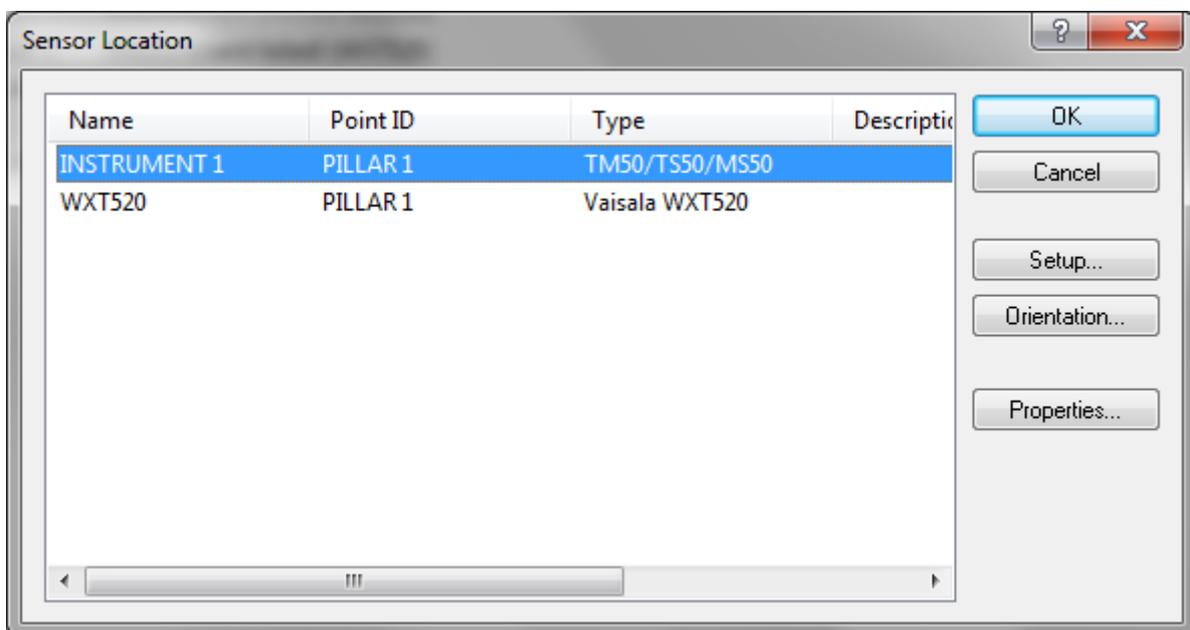


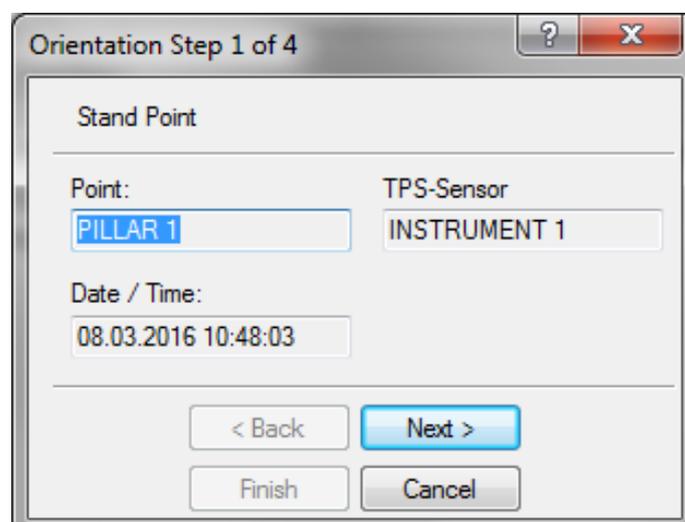
GeoMoS Orientation Procedure

This document outlines how to orientate the total station using the “Sensor Location Editor” in GeoMoS Monitor version 6.3.

1. Select the “Configuration” tab from the top menu and choose “Sensor location editor” from the list of options. You will see the screen below which shows all sensors that are configured in GeoMoS. You must select the instrument that you wish to orientate and then click the “Orientation” button on the right. **NOTE: Before starting this process, please ensure that the instrument that you are orientating in the field is pointed at its reference prism and has its Azimuth (horizontal angle) set to 0°0’0”.**



2. Click “Next” on the first screen shown below.



3. Enter the height of the instrument (shown as Meters) which is the height of the middle of the telescope from the top of the pillar. This is typically 0.245m but add an additional 0.005m if the aluminium instrument housing is installed. Click "Next".

Orientation Step 2 of 4

Enter the instrument height and orientation manually. Press "Finish" to end or "Next" to calculate the orientation by measuring to a point.

Instrument height: m

Orientation:

< Back Next >

Finish Cancel

4. Select the point (Reference prism) that the instrument is pointed at then select next.

Orientation Step 3 of 4

Target point selection:

Point:

< Back Next >

Finish Cancel

5. Ensure that the check box to use the "ATR" is ticked and click "Measure".

Orientation Step 4 of 4

Point to the reflector and press the measure button. The Orientation will be automatically calculated.

Orientation:

Use ATR Measure

< Back Next >

Finish Cancel

6. The value shown for orientation should now change to the true bearing and you can select "finish" to complete the process.