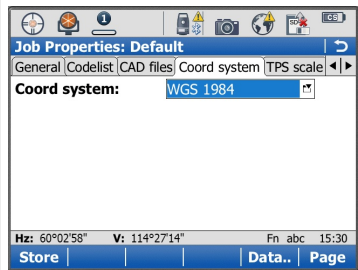
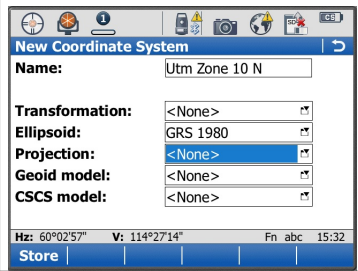
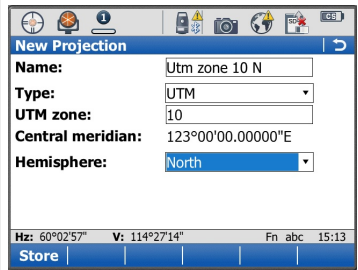


Optional: If using a geoid file that isn't already in the instrument, you'll need to do the following.

Any geoid files (.gem) need to be first placed in the Data -> GPS -> 'Geoid' folder of your portable storage, then transferred to the controller in SmartWorx using (from the main menu) User -> 'Tools & Utilities' -> 'Transfer user objects'. Set the object to transfer to be 'Geoid field file', 'from:USB/SD' & 'to: internal memory'. Check the box 'Transfer all objects of selected type' then press OK.

Step	Screen Menu	Instructions	Visual
1.	Job Properties	<p>Creating the coordinate system</p> <p>From the main menu, select 'Jobs & Data', then 'Job Properties' then select the 'Coord system' tab. Tap the blue box with the current coordinate system (WGS 1984 in my example) to enter the selection screen. Select F2/New to create a new coordinate system.</p>	
2.	Ellipsoids	<p>Select the ellipsoid</p> <p>Tap the box to the right of 'ellipsoid' to view the list of available Ellipsoids, a custom ellipsoid can be created by pressing F2/new, but for most cases select GRS1980.</p>	
3.	Projections	<p>Create/select the projection</p> <p>Tap the box to the right of 'Projection' to enter the projection creation screen. Select F2/New to define the projection. In the screen, name the projection (in this example I'm calling it a UTM zone10 N). Select UTM as the 'type', specify the zone that you're working in and specify the hemisphere as North. Then press store.</p> <p><i>N.B If creating a 3TM coordinate system for use in Alberta, you will need to select Transverse Mercator as the Type. Then change the zone width to 3°, and the central meridian to 111°, 114° or 117° depending on your area, and change the CM scale to 0.9999. The rest of the fields can be left as 0.</i></p>	
4.	Geoids	<p>Attach the geoid</p> <p>Tap the box to the right of 'Geoid model' and select the geoid model from the list. Transformation and CSCS model can be left as <none>.</p>	
5.	Coordinate systems	<p>Name the coordinate system (I've used the projection and geoid), then press store to create the coordinate system, you will see it appear in the list of coordinate systems, and it can now be attached to a job. The attachment of the coordinate system can be done before/during/after points are collected in the job without changing the raw data or corrupting the survey.</p>	