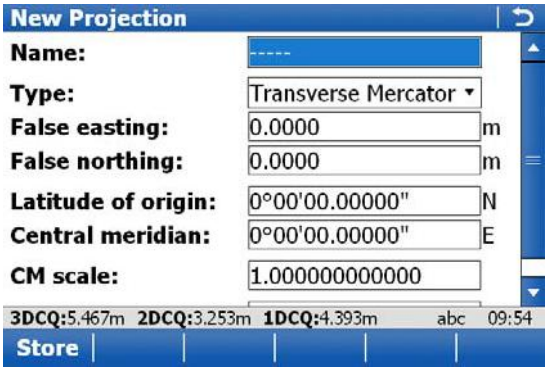
8.6.2 Creating/Editing a Projection

Access

In **Projections**, highlight a projection. A copy of this projection is taken for further configurations. Press **New..** or **Edit..**.

New Projection or Edit Projection



Key	Description
Store	To store the projection.
Fn Quit	To exit the screen.

Description of fields

Field	Option	Description
Name	Editable field	A unique name for the new projection. A name is mandatory, can be up to 16 characters long and include spaces.
Type	Selectable list	The projection type. The setting for determines the availability of the subsequent fields for the parameters of the projection. Refer to "8.6.1 Accessing Projection Management" for a description of the projection types.

8.7 Geoid Models

8.7.1 Overview

Use in the field

For use on the instrument in the field, geoid field files are created from the geoid model.

Create geoid models on the instrument

Geoid models can be created on the instrument in one of three ways:

1. The geoid field file is stored on a data storage device and can be used when the data storage device is inserted in the instrument. It is recommended for large geoid field files. This method is explained in this chapter.
2. The geoid field file is stored in the internal memory of the instrument. It is recommended for large geoid field files. This method is also explained in this chapter.
3. The geoid field file is transferred to the internal memory and can be used at any time. Refer to "30.1 Transfer user objects"for information on how to transfer geoid field files to the internal memory on the instrument.

Access step-by-step

Step	Description
1.	In **Coordinate Systems**, highlight a coordinate system.
2.	Press **New..** or **Edit..**.
3.	Highlight **Geoid model**.
4.	**ENTER** to access **Geoid Models**.

Geoid Models

Listed are all geoid models stored in the database DBX. Any unavailable information is shown as **-----**. For example, **-----** would be shown if the geoid field file associated to the geoid model is not available on the data storage device / internal memory.

Key	Description
OK	To select the highlighted geoid model and to return to the previous screen.
CF card	To create a new geoid model. The \DATA\GPS\GEOID directory on the data storage device is automatically scanned for geoid field files. Refer to "8.7.3 Creating a New Geoid Model from the Data Storage Device / Internal Memory".
Edit..	To view the highlighted geoid model. None of the fields can be edited. The geoid field file from which the geoid model was created must be stored in the internal memory or in the \DATA\GPS\GEOID directory on the data storage device.
Delete	To delete the highlighted geoid model. The geoid field file which was associated with this geoid model is then also deleted.
Fn Quit	To exit the screen.

Requirement

At least one geoid field file with the extension *.gem is in the \DATA\GPS\GEOID directory on the data storage device / internal memory.

Create geoid model step-by-step

Step	Description
1.	Listed in **Geoid Models** are all geoid models stored in the internal memory. OR Press **CF card** to scan the \DATA\GPS\GEOID directory on the data storage device.
2.	For each geoid field file on the data storage device or in the internal memory, one geoid model is automatically created. The names given to the geoid models are those names which were entered in LGO. ☞ Existing geoid models are automatically overwritten by new models with the same name.
3.	The creation of a geoid model is finished.

8.8 CSCS Models

Use in the field

For use on the instrument in the field, CSCS field files are created from the CSCS model.

☞ The creation of CSCS models on the instrument and the functionality of all screens and fields are similar to those for geoid models. Refer to " Requirement".
The directory on the data storage device / internal memory for CSCS field files with the extension *.csc is \DATA\GPS\CSCS.

☞ All changes made effect the control job.

Access

Select **Main Menu: Jobs & Data\Create control data.**
☞ **Data..** displays the Data in the control job.

Create new point

This screen is similar to the **New Point** screen. Refer to "New Point, Coords page".

Key	Description
Next	To store the point and to remain in the screen. The point ID increments according to point ID template.

Methods for creating lines, arcs and polylines

Description of fields

Field	Option	Description
Method		Select one of the following options to create a line/arc/polyline.
	2 points and **Line - 2 points**	For lines/polylines. Uses two known points to define the reference line.
	Pt, brng, dist, grade and **Line - Pt, brng, dist, grad**	For lines/polylines. Defines the reference line using a known point, a distance, an azimuth and the gradient of the line. A new point is created at the end of the line.
	Pt, brng, dist, Δht and **Line - Pt, brng, dist, Δht**	For lines/polylines. The same as **Pt, brng, dist, grade**/**Line - Pt, brng, dist, grad** but uses the difference in height instead of the gradient. A new point is created at the end of the line.
	3 points and **Arc - 3 points**	For arcs/polylines. Defines the reference arc using three known points.
	2 points/radius and **Arc - 2 points/radius**	For arcs/polylines. Defines the reference arc with two known points and a known radius.

Create new line/arc

For all point fields, the MapView interactive display can be used to select the desired point.

Key	Description
Store	To store the line/arc to the control job.
Next	To store the line/arc and to remain in the screen. The line ID increments according to line ID template.
Survy..	To manually measure a point. Available when a point field is highlighted.
Page	To change to another page on this screen.
Fn IndivID and **Fn Run**	To change between entering an individual line ID different to the defined ID template and the running line ID according to the ID template.
Fn Quit	To exit the screen.