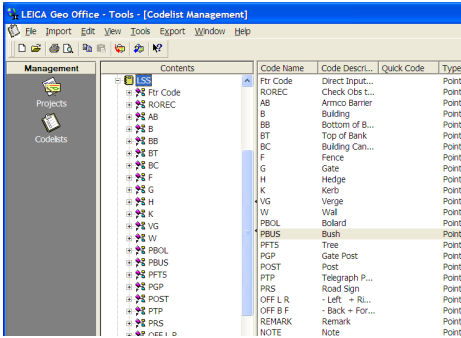
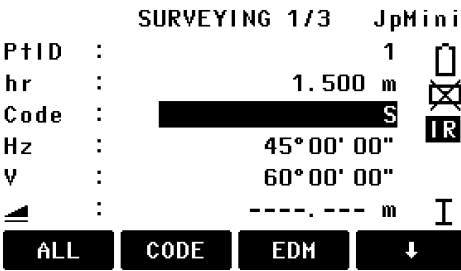
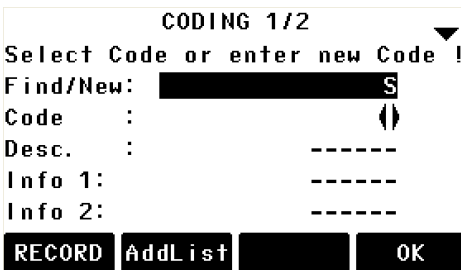
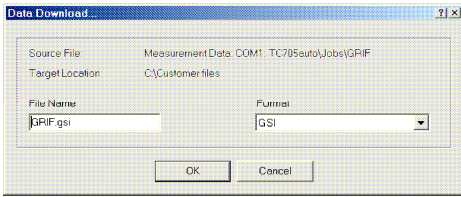
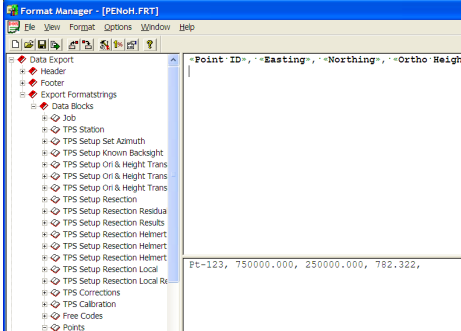


Coding and formats on your TPS 800 Series Total Station

Most of this guide will be relevant for the TPS300, 400 and 700 series also but some functions may vary slightly.

Step	Action	Screen Display																																																																																																				
1	<p>Coding – you can enter coding on the instrument either using a pre-defined codelist or just enter the code manually.</p> <p>To use a pre-defined codelist, you will need to use Leica Geo Office (LGO) to create the codes, or upload an existing codelist.</p> <p>Basic codes can be created on-board the instrument by going to MENU, F4-File Management, F4-Codes.</p> <p>Use the Codelist Manager function in LGO to create your codes.</p> <p>Codes can either be of type Point or Free. Point codes are thermal and are recorded with the measurement. Free codes are separate to the measurements and are recorded on their own in-between measurements. Free codes can be used with certain surveying software.</p> <p>To enter point coding on the instrument if you do not have a codelist, highlight Code on the standard SURVEYING screen and type in a code. This will then store with your measurement.</p> <p>To be able to select a pre-defined code from the codelist, either select F4-↓ twice until F2-CODE appears, or configure the USER Key = CODE from MENU, F2-Settings. The USER key can then be used for code entry.</p> <p>A codelist file has the extension .crf and can be loaded onto the instrument – see additional guide Using Data Exchange Manager. One codelist at a time can be transferred to the Code folder on the instrument.</p> <p>Example codelists can be found on the included CD.</p>	 <table border="1"> <thead> <tr> <th>Code Name</th> <th>Code Descr...</th> <th>Quick Code</th> <th>Type</th> </tr> </thead> <tbody> <tr><td>Pt Code</td><td>Direct Input...</td><td></td><td>Point</td></tr> <tr><td>ROREC</td><td>Check Obs t...</td><td></td><td>Point</td></tr> <tr><td>AB</td><td>Armo Barrier</td><td></td><td>Point</td></tr> <tr><td>B</td><td>Building</td><td></td><td>Point</td></tr> <tr><td>BB</td><td>Bottom of B...</td><td></td><td>Point</td></tr> <tr><td>BT</td><td>Top of Bank</td><td></td><td>Point</td></tr> <tr><td>BC</td><td>Building Can...</td><td></td><td>Point</td></tr> <tr><td>F</td><td>Fence</td><td></td><td>Point</td></tr> <tr><td>G</td><td>Gate</td><td></td><td>Point</td></tr> <tr><td>H</td><td>Hedge</td><td></td><td>Point</td></tr> <tr><td>K</td><td>Keib</td><td></td><td>Point</td></tr> <tr><td>VG</td><td>Verge</td><td></td><td>Point</td></tr> <tr><td>W</td><td>Wall</td><td></td><td>Point</td></tr> <tr><td>PBOL</td><td>Boiland</td><td></td><td>Point</td></tr> <tr><td>PBUS</td><td>Bush</td><td></td><td>Point</td></tr> <tr><td>PFTS</td><td>Tree</td><td></td><td>Point</td></tr> <tr><td>POP</td><td>Gate Post</td><td></td><td>Point</td></tr> <tr><td>POST</td><td>Post</td><td></td><td>Point</td></tr> <tr><td>PTP</td><td>Telegraph P...</td><td></td><td>Point</td></tr> <tr><td>PS</td><td>Road Sign</td><td></td><td>Point</td></tr> <tr><td>OFF L R</td><td>- Left + RL...</td><td></td><td>Point</td></tr> <tr><td>OFF B F</td><td>- Back + For...</td><td></td><td>Point</td></tr> <tr><td>REMARK</td><td>Remark</td><td></td><td>Point</td></tr> <tr><td>NOTE</td><td>Note</td><td></td><td>Point</td></tr> </tbody> </table>  <p>SURVEYING 1/3 JpMini</p> <p>PtID : 1</p> <p>hr : 1.500 m</p> <p>Code : S</p> <p>Hz : 45° 00' 00"</p> <p>V : 60° 00' 00"</p> <p>----- m</p> <p>ALL CODE EDM ↓</p>  <p>CODING 1/2</p> <p>Select Code or enter new Code !</p> <p>Find/New: S</p> <p>Code :</p> <p>Desc. : -----</p> <p>Info 1: -----</p> <p>Info 2: -----</p> <p>RECORD AddList OK</p>	Code Name	Code Descr...	Quick Code	Type	Pt Code	Direct Input...		Point	ROREC	Check Obs t...		Point	AB	Armo Barrier		Point	B	Building		Point	BB	Bottom of B...		Point	BT	Top of Bank		Point	BC	Building Can...		Point	F	Fence		Point	G	Gate		Point	H	Hedge		Point	K	Keib		Point	VG	Verge		Point	W	Wall		Point	PBOL	Boiland		Point	PBUS	Bush		Point	PFTS	Tree		Point	POP	Gate Post		Point	POST	Post		Point	PTP	Telegraph P...		Point	PS	Road Sign		Point	OFF L R	- Left + RL...		Point	OFF B F	- Back + For...		Point	REMARK	Remark		Point	NOTE	Note		Point
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1	<p>Formats – the measured data that is downloaded from the instrument can come in a variety of formats. There are standard Leica formats and also user configurable formats for a variety of applications.</p> <p>The data format is selected when downloading, using Data Exchange Manager – see additional guide.</p> <p>The standard Leica format is GSI. This can be selected on download and the resulting GSI file opened in Coordinate Editor in LGO for example.</p> <p>By using a format file, the format can be changed to suit. Formats can be tailored to almost any format, from a comma-separated file (CSV) to a DXF output file.</p> <p>Formats can be created, opened and edited using Format Manager in LGO.</p> <p>The format file has the extension .frt. Up to 4 formats can be transferred to the Formats folder on the instrument.</p> <p>Example formats can be found on the included CD</p>	 <p>The screenshot shows a 'Data Download' dialog box. The 'Source File' field contains 'Measurement Data COM1: TC705auto\Jobs\GPIF'. The 'Target Location' is 'C:\Customer files'. The 'File Name' field contains 'GPIF.gsi' and the 'Format' dropdown menu is set to 'GSI'. There are 'OK' and 'Cancel' buttons at the bottom.</p>  <p>The screenshot shows the 'Format Manager' window for '[PENOH.FRT]'. The left pane shows a tree view of format categories: Data Export, Header, Footer, Export Formatstrings, Data Blocks, Job, TPS Station, TPS Setup Set Azimuth, TPS Setup Known Backsight, TPS Setup Ori & Height Trans, TPS Setup Ori & Height Trans, TPS Setup Resection, TPS Setup Resection Residual, TPS Setup Resection Results, TPS Setup Resection Helmert, TPS Setup Resection Helmert, TPS Setup Resection Local, TPS Setup Resection Local Re, TPS Corrections, TPS Calibration, Free Codes, and Points. The right pane shows a preview of the format string: 'Point ID', '-Easting', '-Northing', '-Ortho Height'. Below this, a sample line of data is shown: 'Pt-123, 750000.000, 250000.000, 762.322,'.</p>