



TPS1100 Robotic Quick Guide

April, 2005

TPS1100 Robotic

What communication parameters do I set to use a TPS1100 Robotic instrument with Carlson SurvCE?

Solution

Please see the following steps for the settings required to use a TPS1100 robotic instrument with Carlson SurvCE. The TPS1100 instruments include TC(R)A1101, TC(R)A1102, TC(R)A1103 and TC(R)A1105.

- when it has to be **right**

Leica
Geosystems

TPS1100 Robotic Communication Parameters

Required Equipment

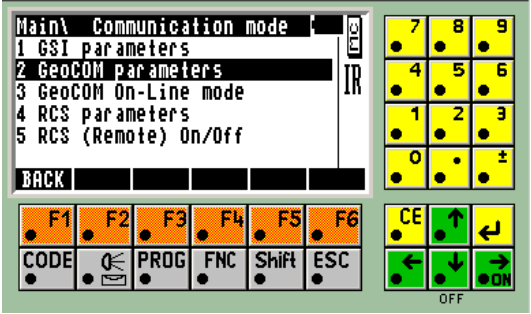
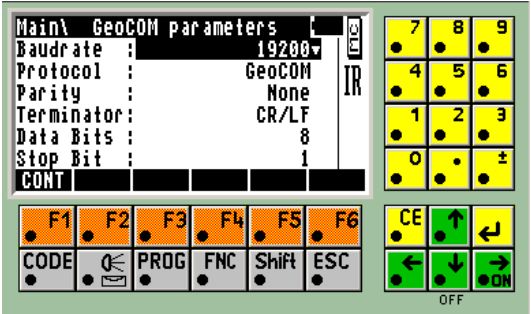
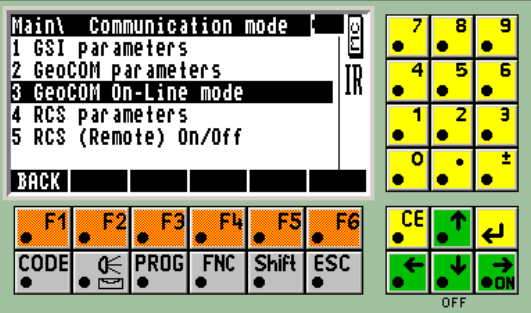
The equipment list includes the following:

- TPS1100 robotic instrument and necessary accessories.
- TCPS27B (663288) or RM2410 (737122) External base radio modem.
- GEV137 Y-cable (707135).
- GEB171 (727367) or GEB71 (409667) External Battery.
- Data Collector with internal rover radio modem running SurvCE.

Step	Action	Display
1	<p>From the Main\ Main Menu:</p> <ul style="list-style-type: none"> • Select 5 Configuration. <p>This takes you to the Main\ Configuration menu.</p>	
2	<p>In the Main\ Configuration menu:</p> <ul style="list-style-type: none"> • Select 2 Communication mode. <p>This takes you to the Main\ Communication mode menu.</p>	

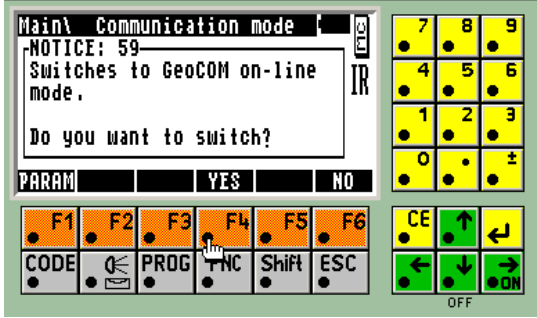
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TPS1100 Robotic Communication Parameters

Step	Action	Display
3	From the Main\ Communication mode menu: <ul style="list-style-type: none"> Select 2 GeoCOM parameters. <p>This takes you to the Main\ GeoCOM parameters screen.</p>	
4	In the Main\ GeoCOM parameters screen: <ul style="list-style-type: none"> Set Baud rate: 19200. Set Protocol: GeoCOM. Set Parity: None. Set Terminator: CR/LF. Set Data bits: 8. Set Stop bit: 1. Press the F1 (CONT) button to set parameters. <p>This takes you back to the Main\ Communication mode menu.</p>	
5	In the Main\ Communication mode menu: <ul style="list-style-type: none"> Select 3 GeoCOM On-line mode. <p>This takes you to the next Main\ Communication mode screen to enter GeoCOM online mode.</p>	

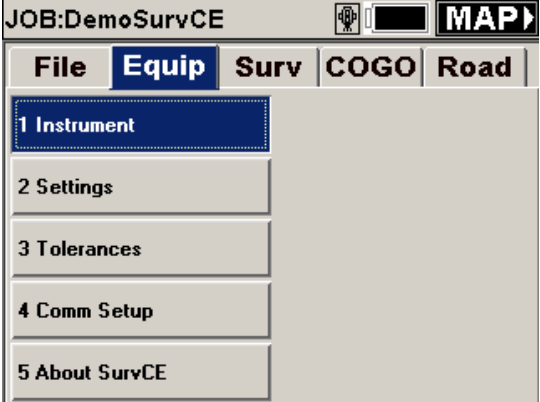
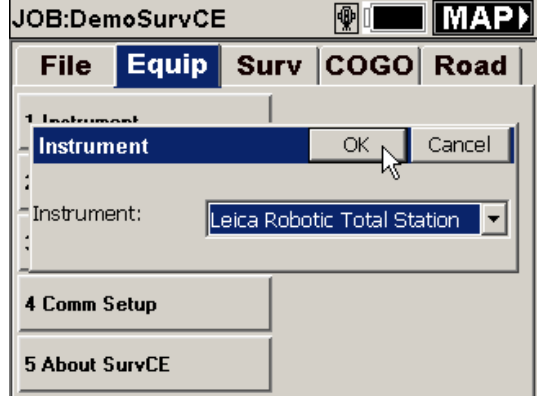
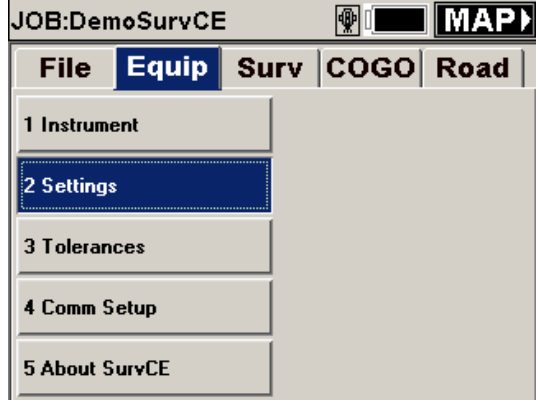
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TPS1100 Robotic Communication Parameters

Step	Action	Display
6	<p>Continuing in the Main\ Communication mode screen:</p> <ul style="list-style-type: none"> Press the F4 (YES) button to enter GeoCOM online mode. <p>Note: Leave the instrument in this mode while using the SurvCE application on the data collector.</p> <ul style="list-style-type: none"> To exit the online mode, press the F6 (EXIT) button. 	

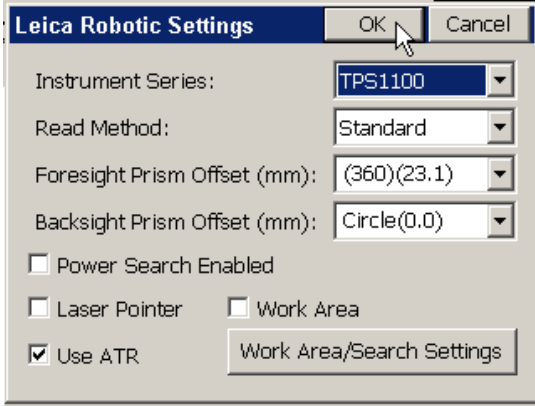
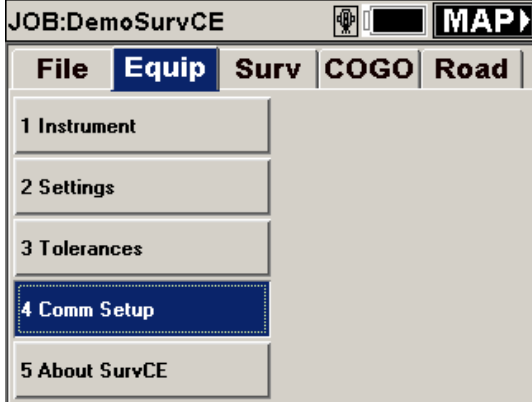
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TPS1100 Robotic SurvCE Settings

Step	Action	Display
1	<p>From the Main Menu:</p> <ul style="list-style-type: none"> • Select Equip tab. • Select 1 Instrument. <p>This takes you to the Instrument choice list.</p>	
2	<p>In the Instrument choice list:</p> <ul style="list-style-type: none"> • Select Leica Robotic Total Station. • Tap on the OK button. <p>This takes you back to the Equip tab.</p>	
3	<p>Continuing in the Equip tab:</p> <ul style="list-style-type: none"> • Select 2 Settings. <p>This takes you to the Leica Robotic Settings screen.</p>	

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TPS1100 Robotic SurvCE Settings

Step	Action	Display
4	<p>In the Leica Robotic Settings screen:</p> <ul style="list-style-type: none"> • Select Instrument Series: TPS 1100. • Select Read Method: <Std/Fast/Reflectorless>. • Select Foresight Prism Offset (mm): <prism type>. • Select Backsight Prism Offset (mm): <prism type>. • Check any other boxes that apply for your instrument type. • Tap the OK button. <p>This returns you to the Equip tab.</p>	
5	<p>Continuing in the Equip tab:</p> <ul style="list-style-type: none"> • Select 4 Comm Setup. <p>This takes you to the Comm Setup screen.</p>	
6	<p>In the Comm Setup screen:</p> <ul style="list-style-type: none"> • Port Number: COM3 (internal radio modem) • Baud Rate: 19200. • Parity: None. • Char Length: 8. • Stop Bits: 1. • Tap the OK button. <p>This takes you back to the Equip tab.</p> <p>Note: You are now connect and ready to survey.</p>	