



TPS1000 Quick Guide

April, 2005

TPS1000

What communication parameters do I set to use a TPS1000 instrument with Carlson SurvCE connected by a cable?

Solution

Please see the following steps for the settings required to use a TPS1000 instrument (non-robotic) with Carlson SurvCE. The TPS1000 instruments include TC/TCA1100, TC/TCA1700 and TC/TCA1800.

- when it has to be **right**

Leica
Geosystems

TPS1000

Communication Parameters

Required Equipment

The equipment list includes the following:

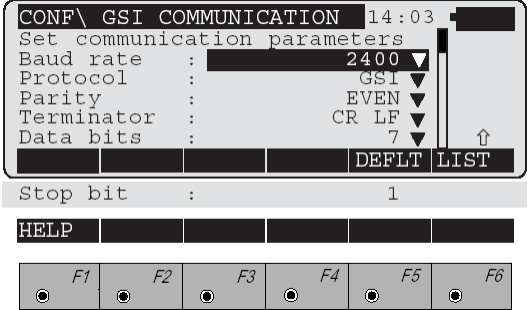
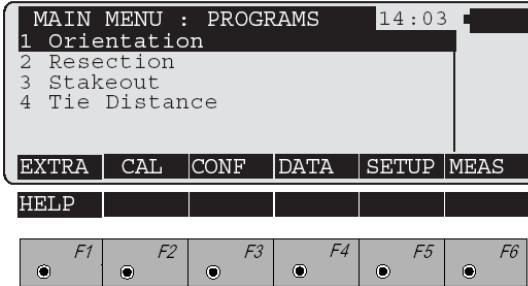
- TPS1000 instrument.
- Connection cable.
- Data Collector running SurvCE.

Step	Action	Display
1	<p>From the Main Menu:</p> <ul style="list-style-type: none"> • Press the F3 (CONF) button. <p>This takes you to the CONF\ SYSTEM CONFIG. menu.</p>	
2	<p>From the CONF\ SYSTEM CONFIG. Menu:</p> <ul style="list-style-type: none"> • Select 3 GSI – Communications param. <p>This takes you to the CONF\ GSI COMMUNICATION screen.</p>	

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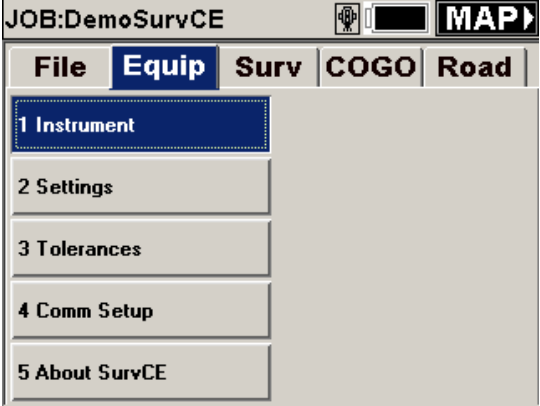
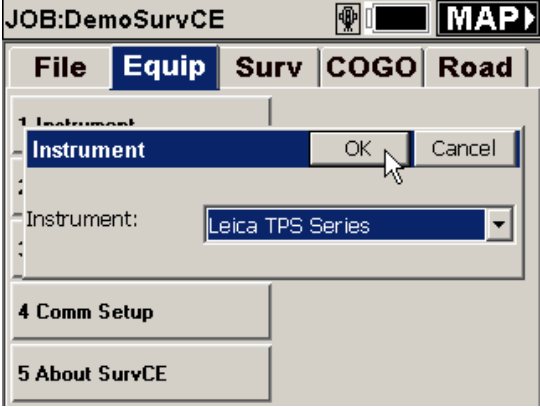
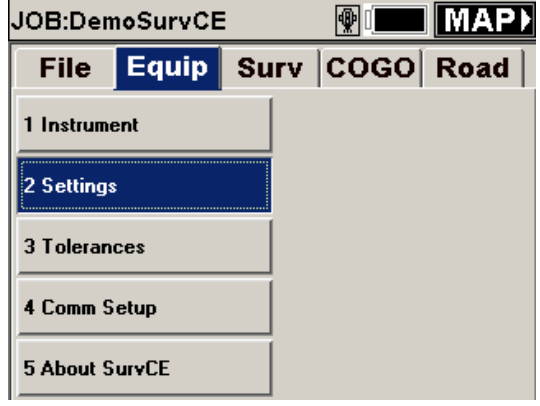
Communication Parameters

Step	Action	Display
3	<p>In the CONF\ GSI COMMUNICATION screen:</p> <ul style="list-style-type: none"> • Set Baud rate: 19200. • Set Protocol: GSI. • Set Parity: None. • Set Terminator: CR LF. • Set Data bits: 8. • Set Stop bit: 1. • Press the (CONT) button to set parameters. <p>This takes you to the Main Menu.</p>	 <p>CONF\ GSI COMMUNICATION 14:03 Set communication parameters Baud rate : 2400 Protocol : GSI Parity : EVEN Terminator : CR LF Data bits : 7 DEFLT LIST Stop bit : 1 HELP F1 F2 F3 F4 F5 F6</p>
4	<p>In the Main Menu:</p> <ul style="list-style-type: none"> • Press the F6 (MEAS) button. <p>Note: Leave the instrument in this measure screen while using the SurvCE application on the data collector.</p>	 <p>MAIN MENU : PROGRAMS 14:03 1 Orientation 2 Resection 3 Stakeout 4 Tie Distance EXTRA CAL CONF DATA SETUP MEAS HELP F1 F2 F3 F4 F5 F6</p>

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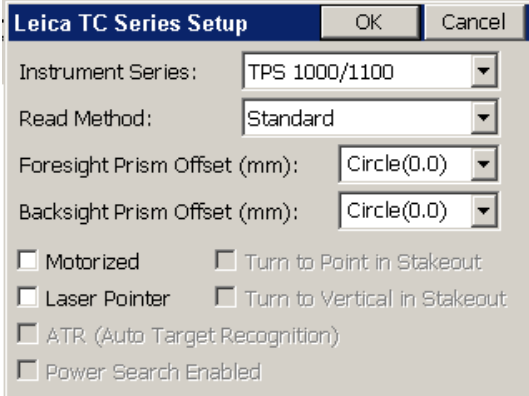
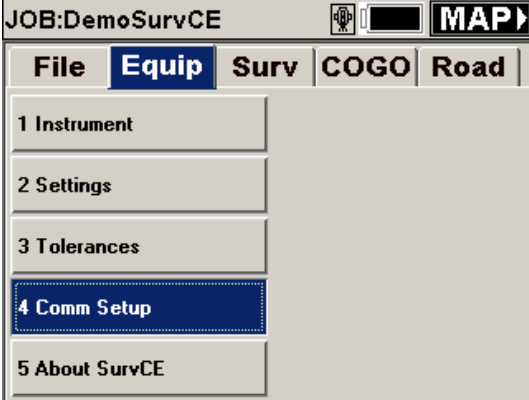
SurvCE Settings

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

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SurvCE Settings

Step	Action	Display
4	<p>In the Leica TC Series Setup screen:</p> <ul style="list-style-type: none"> • Select Instrument Series: TPS 1000/1100. • Select Read Method: <Standard/Fast/Tracking>. • 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: COM1 or COM2 (where your cable is connected) • 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>	