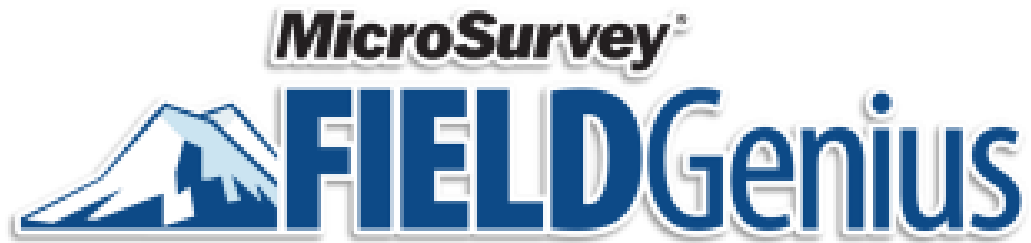




MicroSurvey FieldGenius

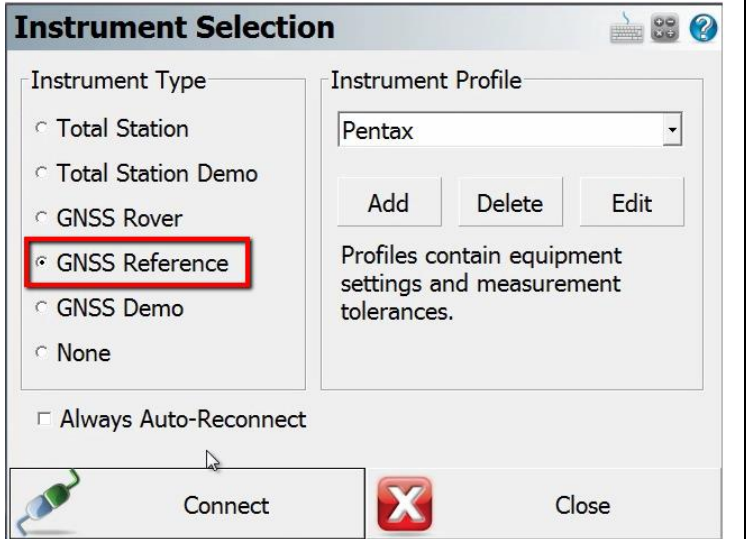
Known Geodetic Base



- Used when the base is set up on a point with a known grid coordinate
- This will allow you to store grid positions with your rover
- EDM distances measured between GPS points must be corrected with a scale factor

1. Set up the base on a point that you measured during Day 1

Connect to the pre-configured base



Instrument Selection

Instrument Type

- Total Station
- Total Station Demo
- GNSS Rover
- GNSS Reference**
- GNSS Demo
- None

Instrument Profile

Pentax

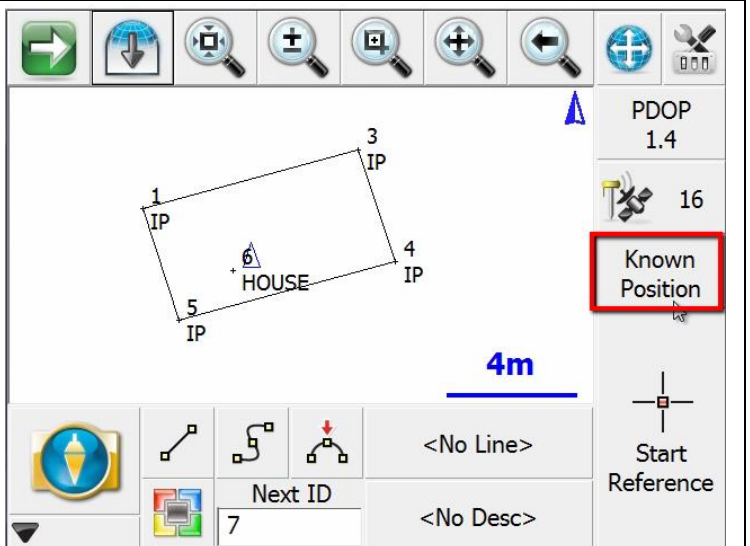
Add Delete Edit

Profiles contain equipment settings and measurement tolerances.

Always Auto-Reconnect

Connect Close

2. Pick the GPS Mode Button



PDOP 1.4

16

Known Position

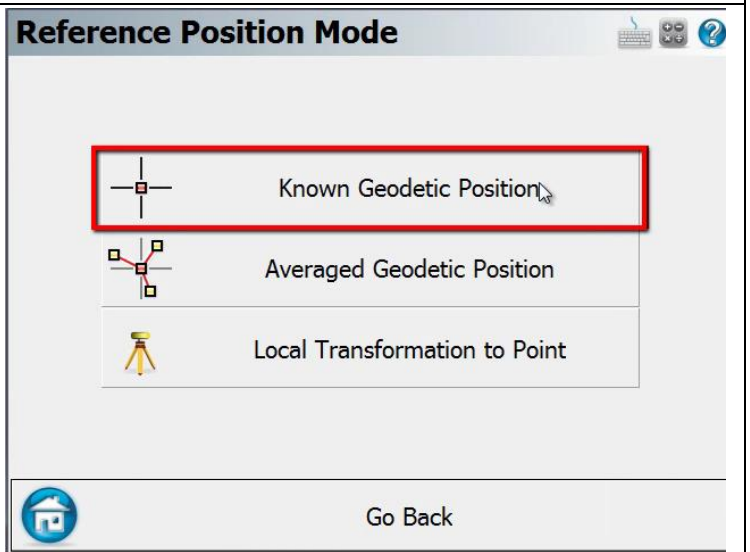
Start Reference

Next ID 7

<No Line>

<No Desc>

3. Then pick "Known Geodetic Position"



Reference Position Mode

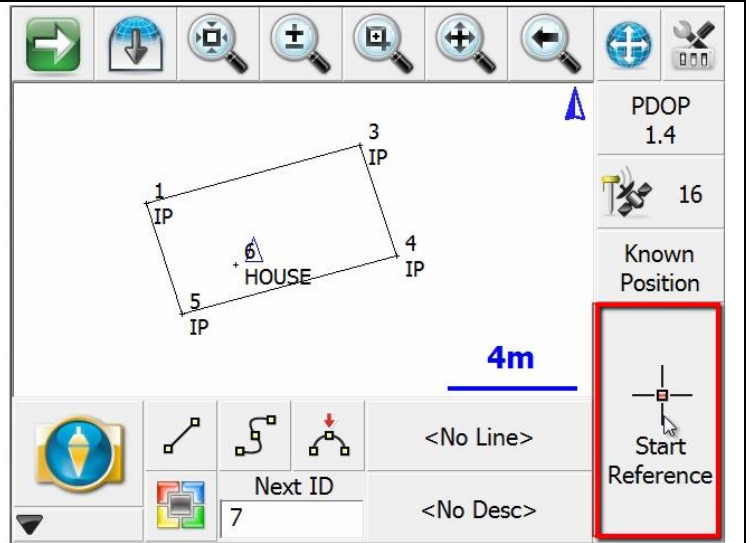
Known Geodetic Position

Averaged Geodetic Position

Local Transformation to Point

Go Back

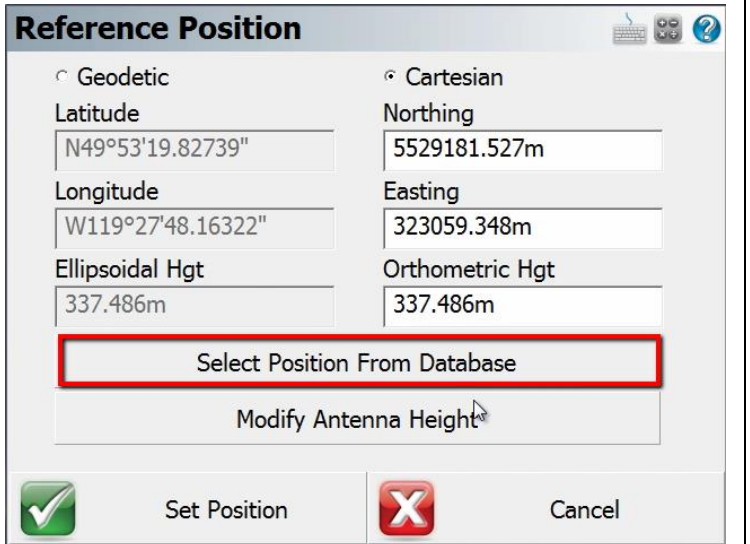
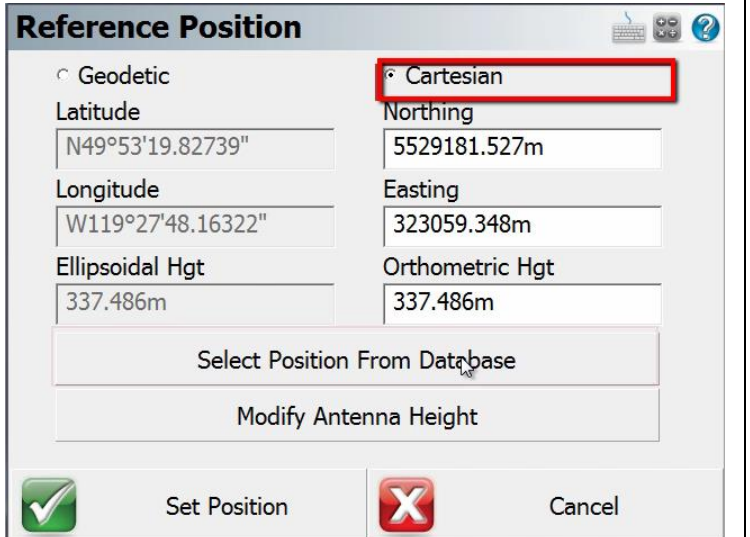
4. Pick on "Start Reference"



5. Pick the Cartesian to select a Cartesian Point. Select a Point from the Database and pick the point you wish to set up on. Or you can manually enter coordinates.

You can enter a published control point in either Latitude/Longitude or Cartesian Coordinate.

Check your Antenna height as it may have changed



6. Then pick "Set Position"

Reference Position

Geodetic Cartesian

Latitude N49°53'19.82739"	Northing 5529181.527m
Longitude W119°27'48.16322"	Easting 323059.348m
Ellipsoidal Hgt 337.486m	Orthometric Hgt 337.486m

7. Configure the radio settings for the RTK link. Then press "Connect". Notice on your base if your RTK link is now enabled.

Link Configure

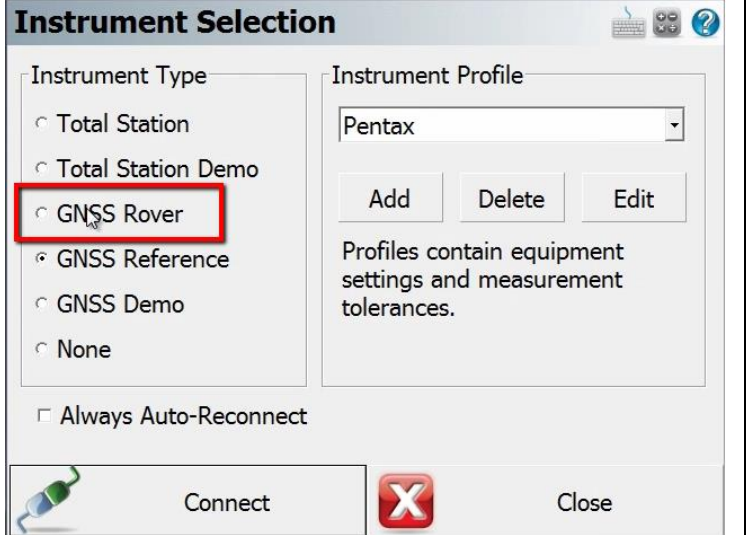
Link Device SATEL <input type="button" value="Setup"/>	Link Communication GNSS Port: Internal Device Baud Rate: <input type="text"/> Parity: <input type="text"/> Data Bits: <input type="text"/> Stop Bits: <input type="text"/> Flow Control: <input type="text"/>
Data Format CMR Stn ID: 0	

8. Disconnect from the base using the "Instrument Disconnect" button.

Instrument Settings

Sensor Configure	Raw Data Logging
Sensor Information	Command Console
Link Configure	<input checked="" type="button" value="Instrument Disconnect"/>
Position Information	

9. Connect to your rover. Select the rover from the pre-configured instruments



Instrument Selection

Instrument Type

- Total Station
- Total Station Demo
- GNSS Rover
- GNSS Reference
- GNSS Demo
- None

Instrument Profile

Pentax

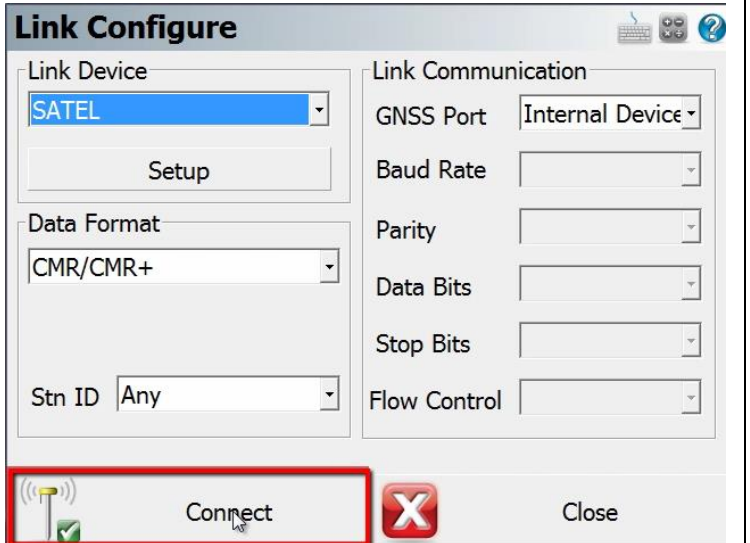
Add Delete Edit

Profiles contain equipment settings and measurement tolerances.

Always Auto-Reconnect

Connect Close

10. Configure the radio to listen to RTK link from the base. Press "Connect".



Link Configure

Link Device: SATEL

Setup

Data Format: CMR/CMR+

Stn ID: Any

Link Communication

GNSS Port: Internal Device

Baud Rate: []

Parity: []

Data Bits: []

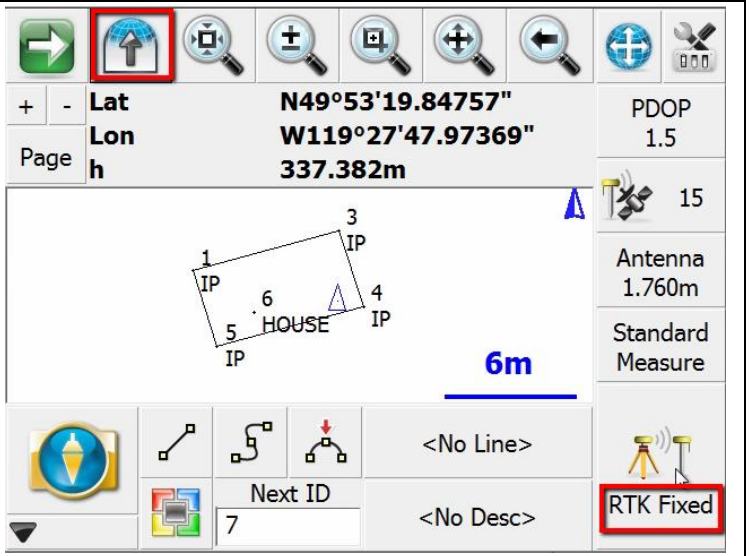
Stop Bits: []

Flow Control: []

Connect Close

11. Pick on the observations toolbar to see the current position of the rover.

Also Notice measurement button change to RTK fixed when that solution type has been attained.



Observation toolbar: [Home] [Position] [Zoom In] [Zoom Out] [Zoom Reset] [Zoom Full] [Previous View] [Next View] [RTK Fixed]

Lat: N49°53'19.84757"

Lon: W119°27'47.97369"

Page h: 337.382m

PDOP: 1.5

Antenna: 1.760m

Standard Measure

Next ID: 7

<No Line>

<No Desc>

RTK Fixed