

PPK Survey with Trimble Access

Nb. These notes refer to the TSC7, TSC5 controllers but apply equally to any touchscreen tablet running Trimble Access. Access must have a PPK Survey Style configured before starting. There is guidance at the end of this guide on how to set up a PPK - Survey Style.

The PPK survey is used when loss of base data occurs during an RTK survey. In the case of VRS this normally happens when working in an area with poor mobile data network reception. The data captured during the survey needs to be post processed using Trimble Business Center (TBC). Whilst the survey doesn't provide real time precise coordinates, the post processed data will.

This guide now assumes the Trimble Access controller is connected to the GNSS Receiver by cable or Bluetooth.

- To start a PPK survey, open or create a new job.
- Tap **Menu > Measure > PPK** and then select **Measure Point** or **Measure Codes**.
- If prompted to give the raw data file a name for the PPK Session, use the default name suggested or set your own. (Whether this appears depends on the Survey Style settings).

During the survey enough raw data needs to be collected and stored to allow the data to initialise when post processed with TBC. The raw data is collected On The Fly in the background and a countdown till the minimum amount of data are collected appears on screen.

*Ensure the survey runs for at least **15 minutes** to collect enough raw data and ensure the status is **initialised** at the end of the survey. If it isn't then leave the Receiver in a position with a good sky view and wait until Initialised is reported before ending the survey.*

Initialisation will restart if the number of satellites in view falls below 5.

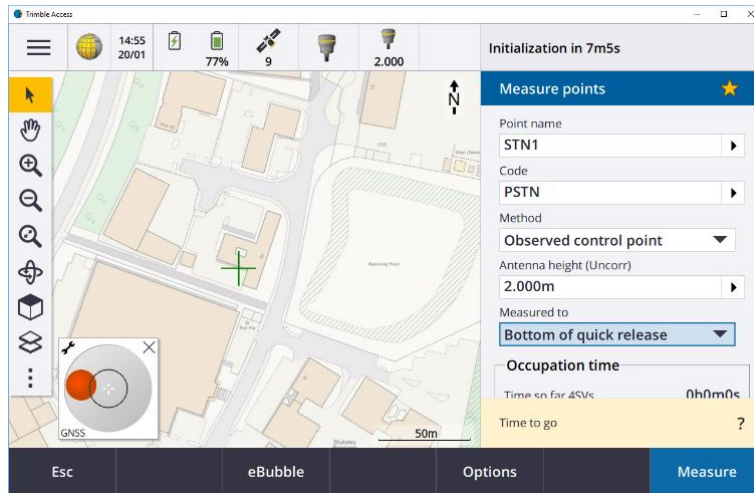
- Observe points as per a normal RTK/VRS survey but bear in mind there will be less real time feedback on the quality of the positioning.

Got a question?

Talk: info@korecgroup.com | 0345 603 1214

Visit: www.korecgroup.com

- Select the appropriate measurement method when using **Measure Points**.
 - Control Points = Observed Control Point
 - Detail Points = Topo Point



- To end the survey, press **Menu > Measure** and then **End GNSS survey**.

Again please ensure the survey is in the Initialized state before ending. It is also recommended that the survey session as a whole is a minimum of 15 minutes in duration, to provide some data redundancy in the post-processing.

How to set up TBC to download a Virtual VRSNow base:

<https://youtu.be/svVYvxqoW9w>

How to post process PPK data using a Virtual VRSNow base:

https://youtu.be/pjZwzmJF_p0

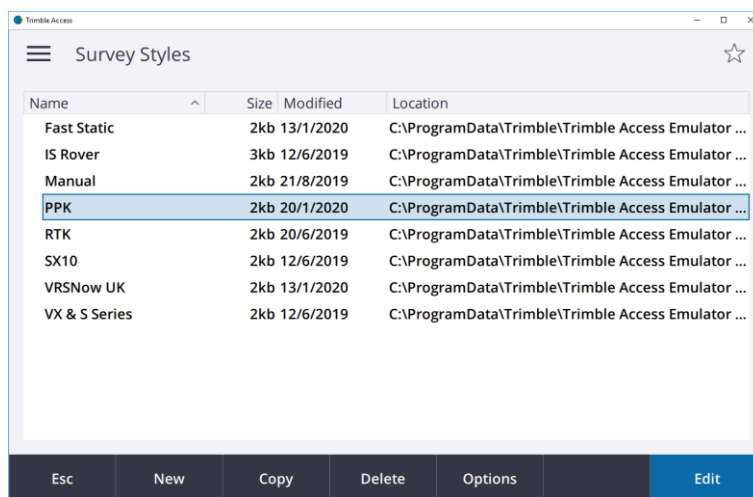
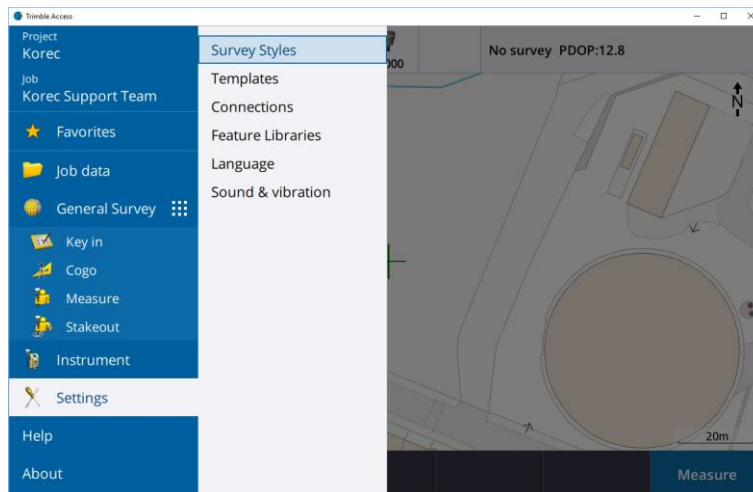
Got a question?

Talk: info@korecgroup.com | 0345 603 1214

Visit: www.korecgroup.com

Creating or Checking a PPK Survey Style

- In Trimble Access, select **Menu > Settings > Survey Styles**. If a style named PPK is already present, tap on it to check its' settings based on the information in this document. If a PPK style is not available, tap the New button and name the new style PPK, selecting the type as GNSS.

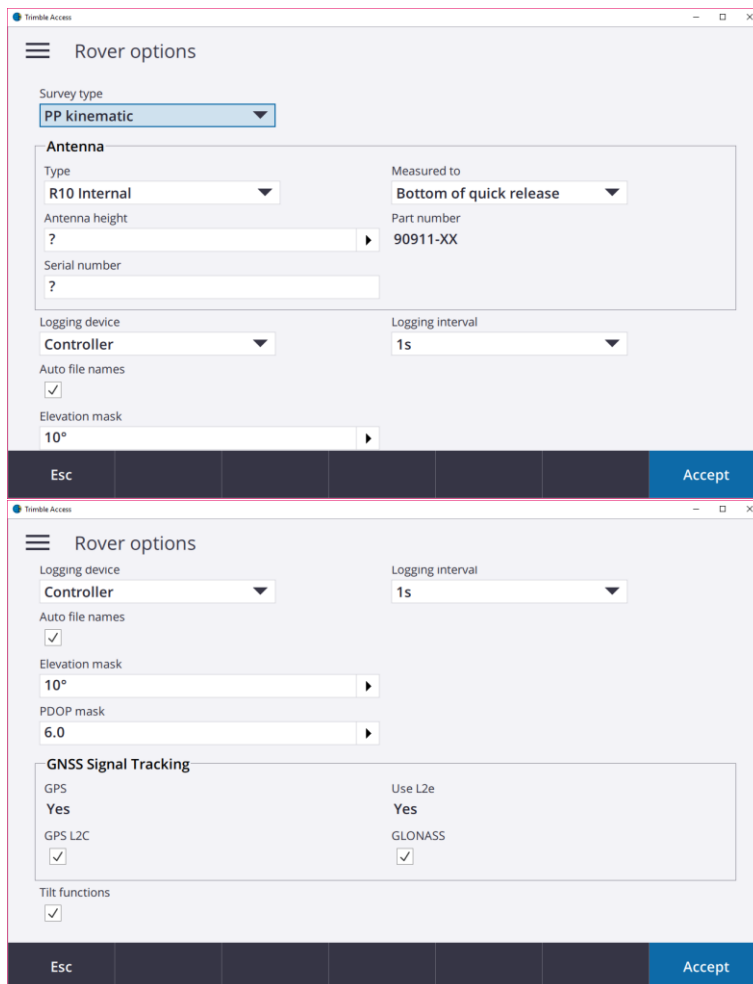


- When configuring/reviewing the PPK style settings first tap on Rover options. Complete as follows...

Got a question?

Talk: info@korecgroup.com | 0345 603 1214

Visit: www.korecgroup.com



Rover options

Survey type
PP kinematic

Antenna

Type
R10 Internal

Measured to
Bottom of quick release

Antenna height
?

Part number
90911-XX

Serial number
?

Logging device
Controller

Logging interval
1s

Auto file names
☒

Elevation mask
10°

Esc Accept

Rover options

Logging device
Controller

Logging interval
1s

Auto file names
☒

Elevation mask
10°

PDOP mask
6.0

GNSS Signal Tracking

GPS
Yes

Use L2e
Yes

GPS L2C
☒

GLONASS
☒

Tilt functions
☒

Esc Accept

Trimble Access will check these options are appropriate for the receiver being used when the survey starts and will update them if they require changing.

- Pressing Accept returns you to the PPK options screen.
- Select Topo Point and tick the Auto store point option. Press Accept

Got a question?

Talk: info@korecgroup.com | 0345 603 1214

Visit: www.korecgroup.com

Trimble Access

Topo point

Auto point step size
1

Auto store point
☒

Number of measurements
2

Quality control
QC 1

Occupation time
0m2s

Tilt

Tilt warnings
☒

Auto-measure
☐

Tilt tolerance
0.020m

Auto abandon
☐

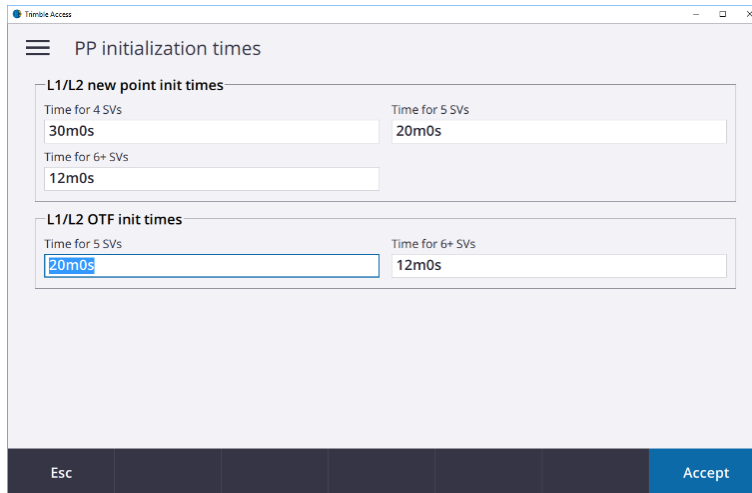
Esc Accept

Got a question?

Talk: info@korecgroup.com | 0345 603 1214

Visit: www.korecgroup.com

- Select PP initialization times and complete the settings as per the screenshot below.



Trimble Access

PP initialization times

L1/L2 new point init times

Time for 4 SVs	Time for 5 SVs
30m0s	20m0s
Time for 6+ SVs	
12m0s	

L1/L2 OTF init times

Time for 5 SVs	Time for 6+ SVs
20m0s	12m0s

Esc Accept

- Press **Accept** and then **Store** to save the changes to the PPK Survey Style.
- Pressing Esc returns you to the main map screen.