

Directional Core Drilling & Borehole Surveying Products



# DEVERSION-MENTIC SURVEY

This manual gives a short description how to perform vertical surveys with the DeviGyro survey tool.

For further applications and more detailed information, take a look in the DeviGyro user manual.

### Assemble DeviGyro running gear

Assemble the DeviGyro and the running gear as normal and adjust centralizer according to hole size.

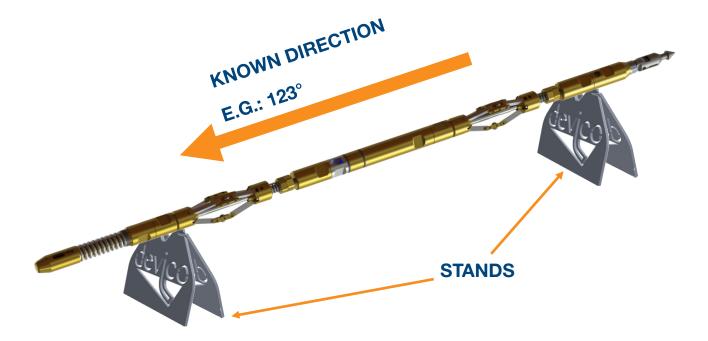
It is recommended to use bow spring centralizers for vertical holes, but rotating centralizers are suitable for shorter (<100 m) holes.



### **Reference direction**

2

- A. Place stands on an undisturbed, level and stable surface.
- B. Lay the DeviGyro Running Gear in the stands and aim in a known direction/azimuth.
- C. Use DeviAligner, DeviSight or traditional land surveying techniques to measure the direction.



### **DEVIGYROVERTICALSURVEY**

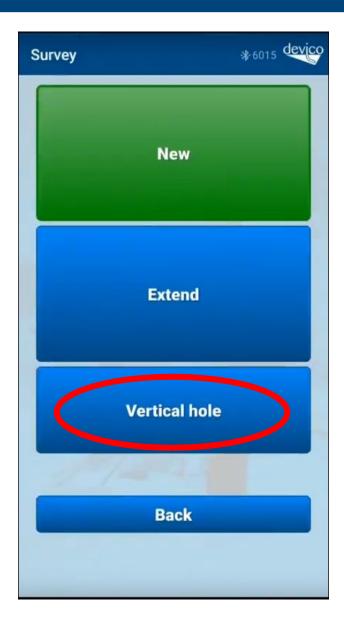
# DEVICENTO CONTUNUES NON-INAGNETIC SURVEY

**Connect and initiate survey** 

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Use the magnet to activate and connect to the DeviGyro app. Press **Start Survey** and **Vertical Survey** to start the survey operation.

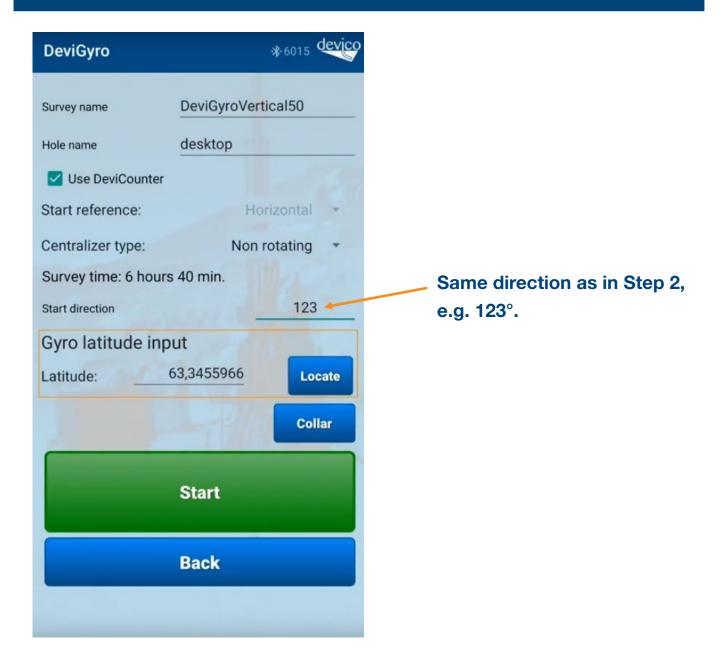


Β

#### Fill in survey parameters as normal.

Enter Start direction as measured in Step 2.

Enter Latitude as normal.



### **DEVIGYROVERTICALSURVEY**

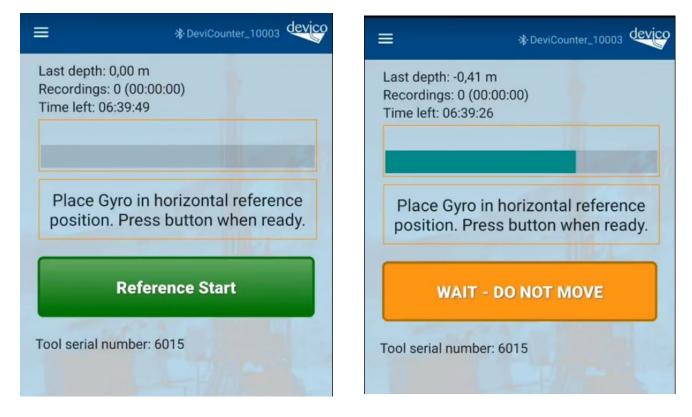
# DEVERSE CONTINUES NON-MAGNETIC SURVEY

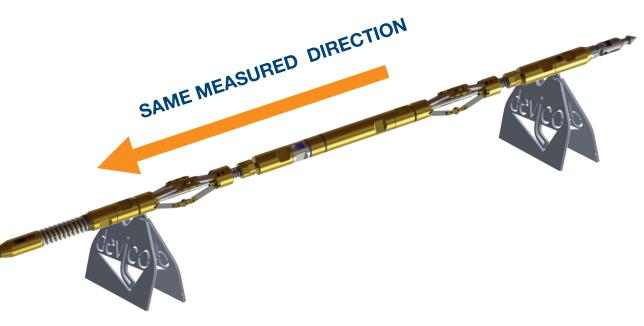
С

Connect DeviCounter as normal.

Ensure the DeviGyro is laying in the stands and faces the measured direction.

Press Reference Start and wait.

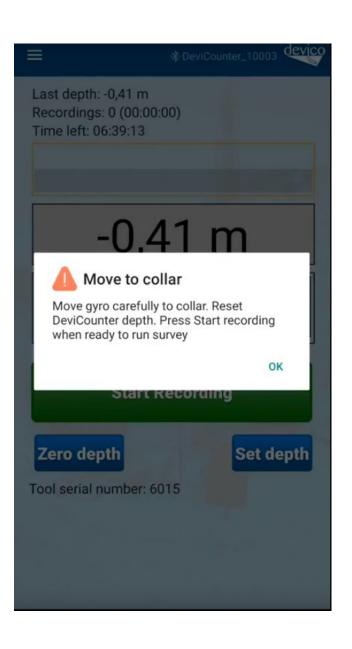




D

Use care when moving the DeviGyro from the stands to the hole collar. Avoid abrupt movements (above 80°/second).

Leave the stands in place as a new reference is needed after the survey is completed.





## DEVERTO CONTINUOUS NON-MAGNETIC SURVEY

### **Perform Survey**

4

Attach DeviCounter and follow standard surveying procedures to perform in and out survey runs, as described in *111531.1002 - DeviGyro Quick Guide*, and summarized here:

- 1. Zero the depth before starting survey
- 2. Start recording and hold still
- 3. Perform survey and end recording at end of hole
- 4. Start new out survey and record while surveying out

		* DeviCounter_10003	
Last depth: -0,41 m Recordings: 0 (00:00:00) Time left: 06:38:55	Last depth: 7,28 m IN >>> Recordings: 435 (00:00:43) Time left: 06:38:09 Time to next standstill period: 189 s	Last depth: 10,15 m Recordings: 700 (00:01:09) Time left: 06:37:39	Last depth: -0,43 m Recordings: 1075 (00:01:47) Time left: 06:36:57 Standstill detected: 7 s
-0,41 m	7,77 m	New Survey	-0,43 m
Link: Receiving Data	Link: Receiving 54 Data M/min 3,6 V	Input survey name. Keep name unchanged for appending the new survey to current file. DeviGyroVertical50	Link: Receiving Data
Start Recording	Stop Recording	CANCEL OK	Stop Recording
Zero depth Tool serial number: 6015	Tool serial number: 6015	Stop Survey Tool serial number: 6015	Tool serial number: 6015

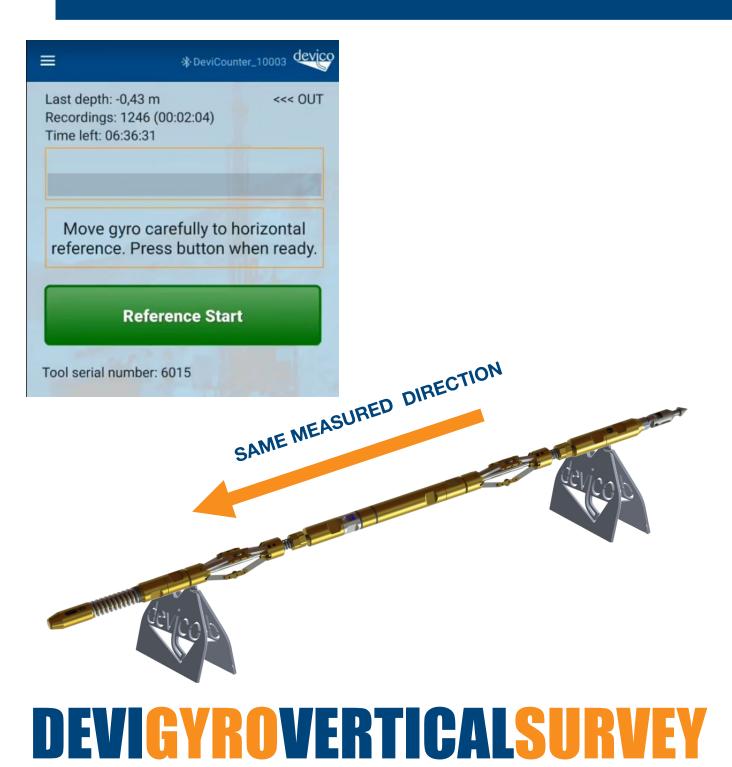
#### **End survey**

5

A

When in and out survey is completed stop the recording, remove the DeviCounter (but leave it on) and move the DeviGyro with care back to the stand.

Press the Reference Start button and wait.

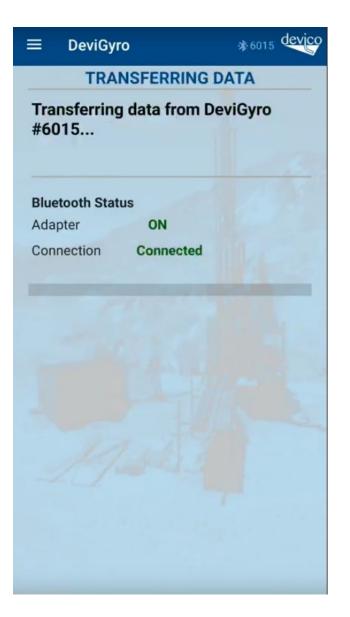




Β

Stop the survey and download data from the DeviCounter and DeviGyro.





### Review the quality report and result table.

Number o	f survey	s			2		
-				DeviGyro			
Serial No. 6				6015			
Sample Period [s]				0.1			
Report Cr	eated		2019	2019-11-25 12:50:56			
Survey Software D				DeviGyro 1.1.0.719			
Hole Deta	ails						
Hole ID				desktop			
End Depth	[m]				13.15		
Collar De	tails						
Azimuth [°]					123		
Gyro Latitude [°]					63.35		
Northing [m]					0		
Easting [m]					0		
Elevation [m]					0		
End Of H	ole Po Depth [m]	sition Northing [m]	Easting [m]	Elevation [m]	Dist. from mean [m]		
1 - In	13.15	-0.02	-0.16	-13.55	0.01		
2 - Out	13.15	-0.01	-0.16	-13.55	0.00		
Average		-0.01	-0.16	-13.55			
Misclose		0	0	0	0		
Misclose per 1000 m					0.00		
End Of H	ole Dir	ections					
Table	Plot	3D View	Colla	ar Prin	nt Back		

DeviGyroVertical50 - desktop - #2 (Out)					
Depth [m]	Azimuth [deg]	Incl. [deg]	Northing [m]	Eas	
-0,4	266,14	-89,31	0,00		
0,6	266,14	-89,31	0,00	-	
1,6	266,14	-89,31	0,00	-	
2,6	265,23	-89,31	0,00	-	
3,6	263,94	-89,31	0,00	-	
4,6	265,72	-89,31	0,00	-	
5,6	265,85	-89,31	-0,01	-	
6,6	264,87	-89,31	-0,01	-	
7,6	264,03	-89,31	-0,01	-	
8,6	265,32	-89,31	-0,01	-	
9,6	264,60	-89,31	-0,01	-	
10,6	264,62	-89,31	-0,01	-	
11,6	264,22	-89,31	-0,01		
12,6	266,13	-89,32	-0,01	-	
13,1	266,13	-89,32	-0,01		

					Quality	
Report	Plot	3D View	Collar	Export	Quality Control	Back

#### NOTE

Clean and dry off the DeviCounter and DeviGyro assemblies properly after use.

### **DEVIGYROVERTICALSURVEY**