

# Monitoring Points in MAGNET Field: DS/PS

A monitoring survey requires the constant and careful observation of a set of previously recorded stations of known and defined coordinates. It ensures any alteration in station position due to various stresses is detected and highlighted to guarantee the integrity of the examined structure.

Prior to undertaking a monitoring survey, carry out an **Instrument Setup** and ensure **Occupation** and **Backsight** points have been established.





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(7)

Selected points populate the left-hand box. A plan of sighted stations is visible on the right. Points can be removed by using the red eraser icon.

Once all required points have been added, press the **green tick** to save.





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(11)

Make sure the data is logged to **File** with a suitable **File Name** and path. Select **Raw Data** as the Output Type.

Ensure that the 'Store As Check Point' box is ticked.

Press the green tick and then press Next.







Monitor	EDM 🔚 🥱 🚮
) 🔅 🖓 🧕	
e Point	100
Cycle Time	5 secs
Auto	On 💌
HA 229°21'49",	VA 67°07'24"
Press Start whe	n ready

# (13)

When the required number of rounds has been completed, press the **Stop** button at the bottom right.

Press the **home** icon to return to the main menu.



# (15)

Confirm the original Point List stations are represented by blue and white quadrants and that all **monitored points** have a **green tick** icon.

# (12)

To begin the monitoring survey, press the **Start** button at the bottom right.

The instrument will continue to record measurements until the user manually stops the process.

Monitor	EDM 🔚 🥱 😭
	🧕 🔯 🔒 🔍 🖉
🔴 Point	101
Cycle Time	5 secs
Auto	On 💌
Measuring Poi	int (2 of 6)

(14)

Enter the **Edit** menu and select the **Raw Data** icon.

Raw Data		Recompute	
Name	Туре		Codes 🔨
103	HVS		
104	HVS		
105	HVS		
<b>100</b>	HVS		
101	HVS		
	11/2		
Find - Find	Next Fi	rst Last	Edit





M	To File		<b>&gt;</b>	
Data		Point Lists		-
Forn	nat	Check Sheet (*.txt)		-
S	elect fi	e units		
	lse filte	rs		
			Next	>>

# (17)

Tick the correct Point List for the job (if more than one) and press **Next**.

To Check Sheet Format		×				
Text Files (*.txt) 💌 💕 🎼						
VProgram Files\MAGNET Field\Jobs						
BAS DS SURV	B	AS To				
BAS STN RTK	📕 ві	AK S				
BAS Topo Surface Creation Test	D:	S TES				
(▲ ::)		$\left \right\rangle$				
Name Monitor Checksheet						

#### (19)

Ensure the **Point List** and **Check Points** are exported successfully.

Press Close.

(16)

To export the survey data, enter the **Exchange** menu from the home screen and select the **'To File'** option.

From the Data drop-down menu select **Point** Lists.

Under Format select Check Sheet (\*.txt)

M	Select Point	List(s) to Export	×
Po	int Lists		
$\checkmark$	PointList1		
5	ielect All	Check	Uncheck
		<< Bac	k Next >>

#### (18)

Enter a sensible Filename and select the required path (internal drive or memory stick) and press the **green tick**.

Export 9	Status	
78 check poir 6 reports exp 1 point list ex	nts exported. orted. (ported.	
Export succes	ssfully finished.	



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# Η ΤΟΡΟΟΛ

#### (20)

If saved to the Field Controller's internal memory, connect the device to a PC via USB cable and load Windows Mobile Device Center.

Browse to and open the newly created .txt file.



		Check Data Sheet			1
TIME	:11:06:28			DATE :	4/28/16
JOB NAME	MONITORING				.,,
JNITS	:Meters			4	
PT#100	CODE :				
	NORTH	EAST	ELEVATION		
DBSERVED:	201.332	97.661	52.596		
CHECK:					
sta#100	201.331	97.661	52.595		
)ifference	0.000	0.000	0.000		
sta#100	201.331	97.661	52.595		
Difference	0.000	-0.001	0.000		
sta#100	201.332	97.660	52.596		
)ifference	0.000	0.001	-0.001		
sta#100	201.311	97.655	52.580		
Difference	0.021	0.006	0.015	2	
Sta#100	201.332	97.660	52.596		
Difference	0.000	0.000	0.000		
sta#100	201.310	97.651	52.596		
Difference	0.022	0.010	0.000		
Sta#100	201.331	97.661	52.595		
Difference	0.000	-0.001	0.000		
Sta#100	201.331	97.661	52.595		
Difference	0.000	0.000	0.000		
Sta#100	201.331	97.661	52.595		
Difference	0.000	-0.001	0.001		
sta#100	201.312	97.655	52.593		
Difference	0.020	0.006	0.003		
sta#100	201.331	97.661	52.595		
Difference	0.000	0.000	0.000		
Sta#100	201.331	97.661	52.595		
Difference	0.000	0.000	0.000		
sta#100	201.304	97.652	52.600		
Difference	0.027	0.008	-0.004		

### (21)

Basic job information is found at the top of the document.

Below this lies the **Observed** coordinate of the first original **Point List** station.

The coordinate of each **new** measurement during each round is then listed.

The **difference** in position from the original to the observed coordinate during that particular round is listed underneath.

This continues for the number of rounds completed and for each station on the Point List.

