

1. Base setup

Connect Satel radio to PM200 POGO connector through specific cable Connect external power supply (+12V) to Satel Radio **Configure Satel radio in order to transmit corrections:**

Press on SETUP



Press ▲ or ▼until the cursor > points to "Radio frequency" –selection and press "Select" to move onto the next submenu.	Radio settings Addressing Port 1 Port 2 Handshaking Additional Tests Factory setup Contrast		
TX & RX freq: changes both TX and RX frequencies at the same time. TX freq: changes only the TX frequency. RX freq: changes only the RX frequency. Press ▲ or ▼ until the cursor > points at the correct selection and Press "CHANGE" if the frequency is to be modified.	G	>TX & RX freq TX freq RX freq Reference freq Ch Spacing BACK ▲▼CHANGE	
TX & RX freq selected The frequency Band 1 limits will I and to get the Band 2 limits. Pre the change frequency window.	be shown. Press ▼ ess "Set" to activate	G	Band 1 limits Lo 403.000.000 Hi 473.000.000 CANCEL ▲▼ SET

The cursor > will now blink under the first digit of the value indicating the (this first digit cannot be edited). To move onto the next digit, press "Next".

Press ▲ or ▼ until the said digit has reached the desired value. Press "NEXT" to move on to the next digit and repeat the above-described steps. Previous steps are repeated four (4) times. Press ▲ ▼, until the last changeable digit has the desired value and confirm changes by pressing "Set". The following information will be displayed for a few seconds.

Ch accepted 468.52500 MHz

The radio modem will acknowledge changes if they are between band limits. The display will return automatically to display the main menu (if the entered frequency is not acceptable an error message will be displayed).



- changing Radio	o Settings			
Press ▲ or ▼ until the cursor > points to "Radio settings" selection and press "Select" to move on to the submenu.	Radio frequency >Radio settings Addressing Port 1 Port 2 Handshaking Additional Tests Factory setup LCD-Contrast			
Press ▲ or ▼ until the cursor > points to the setting to be modified and press "Change".	G	>TX level Sig. Threshold TX start delay Compatibility ВАСК ▼СНАNGE		
<u>MODIFYING TRANS</u> <u>POWER:</u> The displayed list convalues of transmitter of or ▼until the cursor > value and press "SET" NOTE: The starting provides the previous	MITTER OUTPUT sists off all possible output power. Press ▲ > points to the desired ". position of the cursor ily set value.	4	100mU 200mU 500mU >1000mU ⊂ANCEL ▼	SET

Changing Baud Rate of Serial Port1



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NOTE: Port 2 settings are modified correspondingly.

Configure PM200 PromarkField to generate corrections: Define new project:

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Name:	base
Folder:	None 🗸 🔻
Туре:	Survey File (*.csv) 🔹
Location:	Main memory 🔹 🔻
	Save Cancel

Define coordinate system used:

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Name: RGF93
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Go to MENU/OPTIONS

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File Edit View Help
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Type: Static Stop-and-go kinematic Continuous kinematic
Mode:
Real-time
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Survey Units Feature Codes Map V ┥ 🕨

Set Type = Stop&Go or Kinematic Set Mode = Real Time Click OK to valid parameters change

Go to MENU/CONFIGURATION Select Base

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Configuration: Base	▼ Settings
Click on Settings	
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File Edit View File Edit View File Edit View GNSS receiver: External Port:	
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Select Internal

Click on Antenna Tab

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Antenna height:	2 m
🔿 Slant	Vertical
Antenna type:	
ASH111660 (L1 G	PS/GLONASS) 🗸
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GNSS Antenna I	Link Recording
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Enter the antenna height and type of measurement Select the right antenna type (antenna must be external antenna)

Goto Posi	tion tab			
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Site ID:	1			
Easting:	359454	1.217		
Northing:	624304	6.776		
Altitude:	35.685			m
	Curre	ent Posit	ion	
GNSS Ante	enna Positio	on Link	Forma	• •
	12	<u></u>		

Enter Site ID

Enter position coordinates of the base point according to the coordinate system defined in the project

Go to Link tab



Select UHF Radio Click on Settings

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Туре:	Satel	Easy		•	
Baud Rate	38400)		•	
Radio Settings					
	<u>:::</u>	:			

Select Type=Satel Easy And Baud Rate=38400 Click OK to valid parameters

Goto Format Tab

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Antenn	a Posit	ion Lin	k Form	iat St	ati ┥	►
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Select the format you want to use (for instane RTCM 3.0)

Go to Recording tab

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Record raw data for post-processing
Storage: Internal memory 🗸
Interval: 1 sec
Link Format Station Recording

Valid Raw data record if necessary (if you want to be able to post process data) Select the memory storage (internal or SDCard)

ROVER

Configure Fast Survey: Go to EQUIP tab

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😂 GPS Rover			\checkmark	X
Current	Receive	RTK		
Manufac	turer:			
Ashtech			•	i
Model:	ProMark	100/200		•
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Select PM100

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😂 GPS Rover 🛛 🗌		\checkmark		
Current Receiver	RTK			
[ASH111661] AT ▼ ↑	` <u>}</u> ⊒ r	75.4 n ata	mm NGS	
Advanced				

Select the right antenna, measurement type and antenna height

🚝 FAST Survey		#മ€@×		
📚 GPS R	over			×
Current	Receiver	RTK		
Device:	Satel		•	
Network	None			
Port:	В	-		
Baud:	19200	-		
Parity:	None		top: 1	Ŧ
Send	Rover Posit	tion to	Networ	k

Select Satel as Device. Baud rate is fixed to 19200 bauds

Configure Satel radio in order to receive corrections: Check frequency : it should be the same as Base radio. If not change it. Check Baud Rate : it should be set at 19200 bauds. If not change it

Go to Fast Survey and open EQUIP/MONITORING Check that solution is fixed