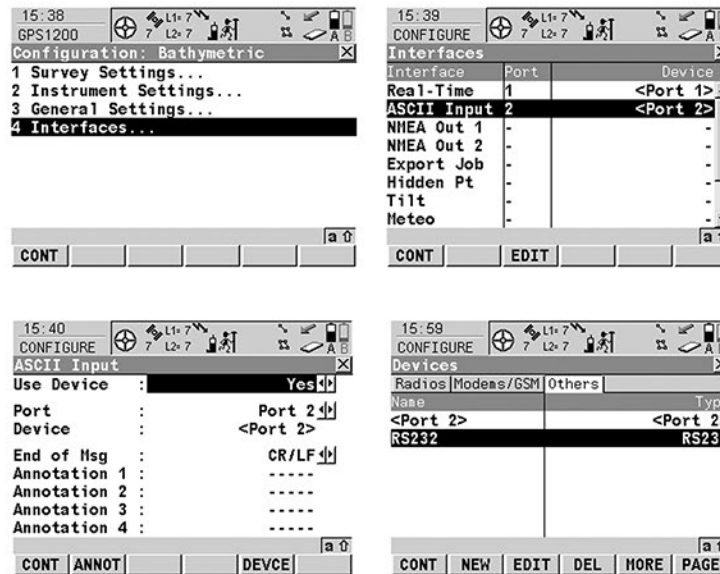
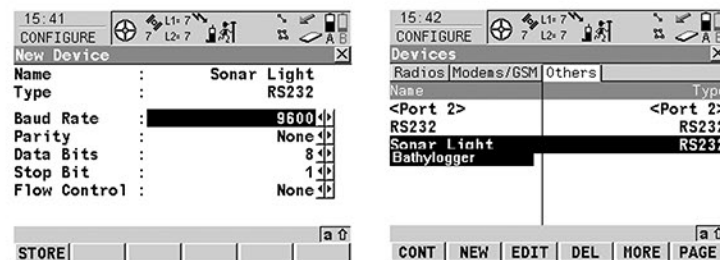


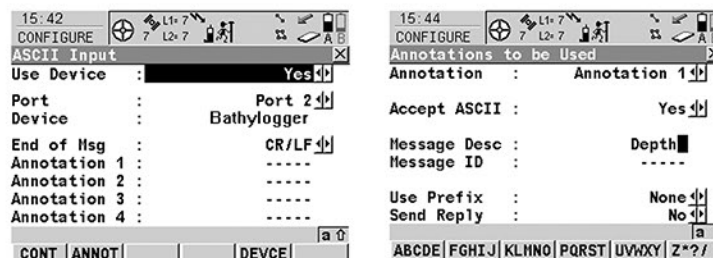
Getting Started



Select the Use Device In Port 2 (or your choice) Command : Cont. Highlight the RS232 And select New Command : Cont.



Type in your Name. We have used Bathyløgger. Set the Rates as above. The GPS will now receive Data from the Bathyløgger. Command : Continue.



You must now set the end of message and Annotation 1. Command : Annot. Type in your Message description. We use Depth. Ensure the Accept ASCII is set to Yes. User Prefix is set to user specified prefix and suffix.

The next screen should be as above confirming your settings. Command : Cont. Congratulations the Sonar light will now talk to the GPS. Command : Cont.

15:44

CONFIGURE

ASCII Input

Use Device : **Yes**
 Port : **Port 2**
 Device : **Sonar Light**
 End of Hsg : **CR/LF**
 Annotation 1 : **Depth**
 Annotation 2 : **----**
 Annotation 3 : **----**
 Annotation 4 : **----**

CONT ANNOT DEVE

15:44

CONFIGURE

Interfaces

Interface	Port	Device
Real-Time	1	<Port 1>
ASCII Input 2		Bathylgger
NHEA Out 1		
NHEA Out 2		
Export Job		
Hidden Pt		
Tilt		
Meteo		

CONT EDIT CTRL

Antenna Set up procedure

From the main screen, (3) Management, (6) Antennas. Start with the ATX1230 Pole. This will bring over the correct phase offsets for your new set up. Command : NEW.

12:05

GPS1200

Management

- Jobs
- Data
- Codelists
- Coordinate Systems
- Configuration Sets
- Antennas**

CONT

12:06

MANAGE

Antennas

Name	Creator
ATX1230 Pole	Default
ATX1230 SmartStn	Default
ATX1230 Tripod	Default
AX1201 Pole	Default
AX1201 Tripod	Default
AX1202 Pillar	Default
AX1202 Pole	Default
AX1202 Tripod	Default

CONT NEW EDIT DEL

In the Name type in your description. In this instance we have used Bathymetric. Do not change other settings. In the IGS Screen change. IGS Name. Serial Number. Set Up Number. This gives your set up a unique IGS. Command : Store. Antenna is now set up : Note Antenna height must be set later !

12:07

MANAGE

New Antenna

General IGS

Name : **Bathymetric**
 Hz Offset : **0.0000**
 V Offset : **0.0000**
 L1 PhOffset : **0.0888**
 L2 PhOffset : **0.0885**
 Copy Additional Corrections : **Yes**

STORE PAGE

12:08

MANAGE

New Antenna

General IGS

IGS Name : **Bathymetric**
 Serial Number : **C & S Survey**
 Set Up Number : **1**

CALC >INS<

Setting Antenna Configuration

From the main menu. (3) Management. (5) Configuration Sets. Command : CONT. Select : NEW

12:53

GPS1200

Management

- Jobs
- Data
- Codelists
- Coordinate Systems
- Configuration Sets**
- Antennas

CONT

12:53

MANAGE

Configuration Sets

Name	Description
DEFAULT	

CONT NEW EDIT DEL MORE

Name your Configuration. Command : Store. Do not change. Command : Cont

12:59
MANAGE
New Configuration Set
Name : Bathymetric
Description : 3 mtr Rib
Creator : C & S Survey

STORE

13:01
CONFIGURE
Wizard Mode
Wizard Mode : View All Screens

CONT LIST

Do not change this screen unless you require different measurements (In the USA they use feet) Command : Cont.

13:03
CONFIGURE
Languages on Instrument
Language
ENGLISH
ARABIC
CZECH
DANISH
GERMAN
SPANISH
FINNISH
FRENCH
CONT DEL

13:04
CONFIGURE
Units & Formats
Units Angle Time Format
Distance Unit: Metre (m)
Distance Dec: 3 Decimals
Angle Unit: 360°
Angle Dec: 1°
Grade Unit: h:v
Velocity Unit: Km/h (kmh)
Area Unit: m²
CONT PAGE

Setting the Configuration

The R-Time Mode must be changed to Rover by toggling the arrows. Command : Cont. This is where you set up your specific base station. In this instance we have used a SR530 Antenna with a Pacific Crest radio in port 1. Set on the AT502 Tripod. Command : Cont.

13:09
CONFIGURE
Real-Time Mode
R-Time Mode: None

CONT

13:10
CONFIGURE
Real-Time Mode
R-Time Mode: Rover
R-Time Data: Leica
Port: Port 1
Device: PacificCrest PDL
Ref Sensor: SR530
Ref Antenna: AT502 Tripod

CONT ROVER DEVICE

Set your required radio channel. This can be changed later if the channel is unavailable or corrupt Command : Cont. Set the Antenna that you have already set up by toggling the arrows. Ensure that the Default HT & Moving Ht are set to the dimension from the base of the transducer to the bottom of the antenna. Command : Cont.

13:19
CONFIGURE
Radio Channel
Radio Type: Pacific Crest PDL
Channel: 1

CONT SCAN

13:20
CONFIGURE
Antenna & Antenna Heights
Antenna: Bathymetric
Default Ht: 1.405 m
Vert Offset: 0.000 m
Meas Type: Vertical

Moving Ht: 1.405 m

CONT

Define your display mask. And your screen update. As these are individual preferences we have left this up to the user. Command : Cont. As we are only collecting Depth these settings remain as default Command : Cont

Ensure that the Log Raw Obs is set to Never. Command : Cont. Set the point Occupation Settings as per the above screen. This is our preference, you may wish to change some parameters. Command : Cont.

Create a new Template. Command : New. Create a new ID with sufficient logging point's we have set ours to a million as you may be collecting a lot of data. Increment by Numeric only. Command : Cont

Note : on these screens the 1 million points is set on Auto for data collection, if this value is less the data will not be recorded after it has surpassed its setting ! Command : Cont.

Set Store Seismic record to No. Command : Cont. Hot Key Set up. We have set this for our use you may wish to see different functions. If so " this is where you do it !" Command : Cont.

These settings are your preference. Settings shown are used by C & S Survey. Command : Cont. As you require to control the input all settings should be set to No failure to set this will result in huge amounts of unnecessary data. Command : Cont.

14:04

CONFIGURE

Display Beeps Text

Touch Screen : Off

Screen Beep : Soft

Screen Illum : Off

Key Illum : Same as Screen

Contrast : 50%

Heating : Automatic

CONT

CALIB

PAGE

14:05

CONFIGURE

Start Up & Power Down

Start Up : Main Menu

Start on Pulse to Port

Port 1 : No

Port 2 : No

Port 3 : No

CONT

PAGE

Standard Satellite Setting. No need to adjust unless you require a loss of lock Beep. Command : Cont. Time Zone settings as per the GPS Set up. Command : Cont.

14:11

CONFIGURE

Satellite Settings

Track Mode : Max Accuracy

Cut Off Angle : 10

Loss of Lock : No Beep/Message

SV Health : Automatic

CONT

HEALTH

14:12

CONFIGURE

Local Time Zone

Time Zone : 0:00

Local Time : 14:12:05

Local Date : 04.11.03

CONT

Your Instrument ID. Set by the instrument. Command : Cont. You have now set up all the criteria for your Configuration. Command : Cont

14:12

CONFIGURE

Instrument ID

Instrument ID : 0000

CONT

DEFLT

14:12

MANAGE

Configuration Sets

Name	Description
Bathymetric	3 Mtr Rib
DEFAULT	

CONT

NEW

EDIT

DEL

MORE

Set Up your New Project. Command : Store. You can of course specify your Coordinate system ! This is where you begin to set up your Survey parameters in the Antenna section. Command : Conf

14:28

MANAGE

New Job

General

Name : Chichester Harb

Description : Marina

Creator : C & S Survey

Device : CF Card

STORE

PAGE

14:31

SURVEY

Survey Begin

Job : Chichester Harb

Coord System : WGS 1984

Codelist : <None>

Config Set : Bathymetric

Antenna : Bathymetric

CONT

CONF

CSYS

Ready To Run

14:33

SURVEY

Configuration

Auto Points Hidden Points

Log Auto Pts : Yes

Log By : Distance

Log Every : 2.000 m

Store : DBX(Pts&Codes)

Start Logging : Controlled

Monitor CQ : No

3D CQ Limit : 0.500

CONT

DMASK

PAGE

Set up to Auto log as per your requirement. This set up will log data as soon as the antenna has moved 2 mtrs from the last recorded point, we use this and the time settings dependant on the survey location. Start logging : Controlled (if not you will pick up a lot of unnecessary data).

Start your Project with occupy. The instrument will log the data, depth is shown on your screen below the antenna Heigh