



222 Metro Center Blvd. | Warwick, RI 02886
Phone (401) 921-5170 | Fax (401) 921-5159

Bathy-500 HYDRopro Configuration

Download the zipped dll file from our website

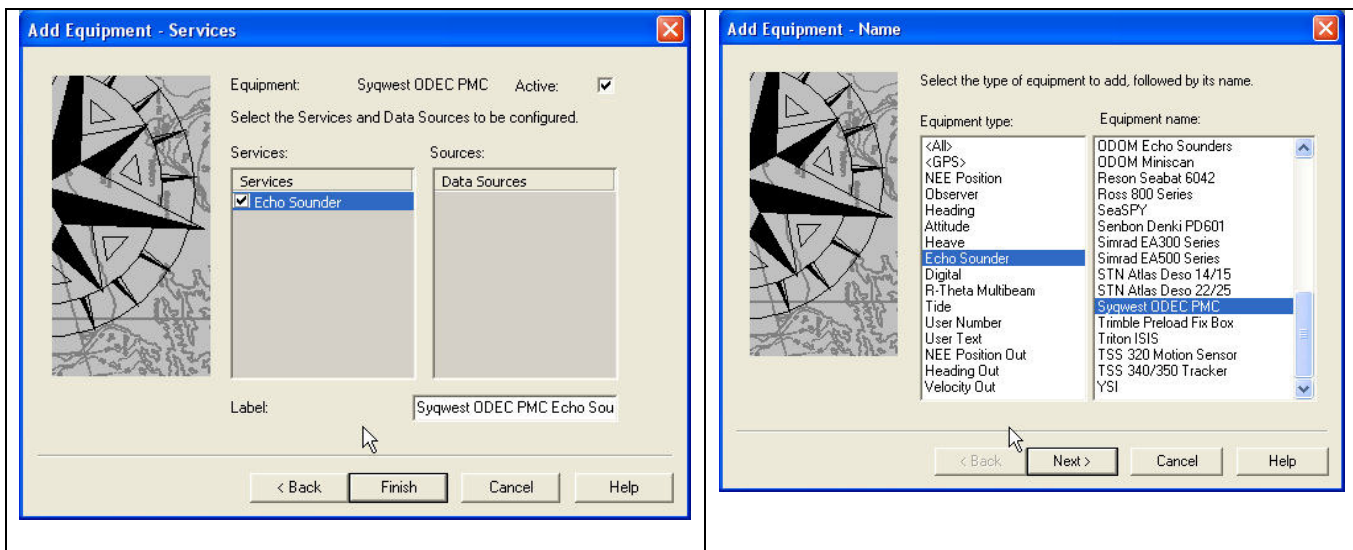
Unzip the SyQwest.dll, and place it in the C:\Program Files\Trimble\HYDRopro\Equip directory.

Then select the SyQwest driver in Hydropro.

Configure the Bathy 500DF for the PMC output protocol 9600,N,8,1 NMEA I/O configuration in the Bathy 500DF software and assign it a com port..

Configure Hydropro as shown below and the Bathy 500DF should provide the PMC data logger output protocol as shown below.

Please note that you must have a valid depth displayed in order to obtain a depth reading in Hydropro.



Add a new sounder device called "Syqwest ODEC PMC"



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CONFIGURE EQUIPMENT SETTINGS AS SHOWN

Label	Main Service	Equipment	Ports	Logging
<input checked="" type="checkbox"/> NMEA (GGA)	NEE Position	Demo	Not Required	Logged On
<input checked="" type="checkbox"/> Network Controller (1)	<Advanced>	Network Controller	1:Not Configured	Never
<input checked="" type="checkbox"/> Syqwest ODEC PMC Echo Soun...	Echo Sounder	Syqwest ODEC PMC	1:Com2	Logged On

Buttons: Add... Remove Rename... Configure... Close Help

Equipment Configuration

Label: Syqwest ODEC PMC
Main service: Echo Sounder
Equipment: Syqwest ODEC PMC

Status
Active:
Function: []

Located at
Vessel: MV Surveyor
Offset: Origin

Buttons: Ports... Properties Custom... Advanced... OK Cancel Help

Configure Equipment

Port 1

Parameters

PC port name: Com2
Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

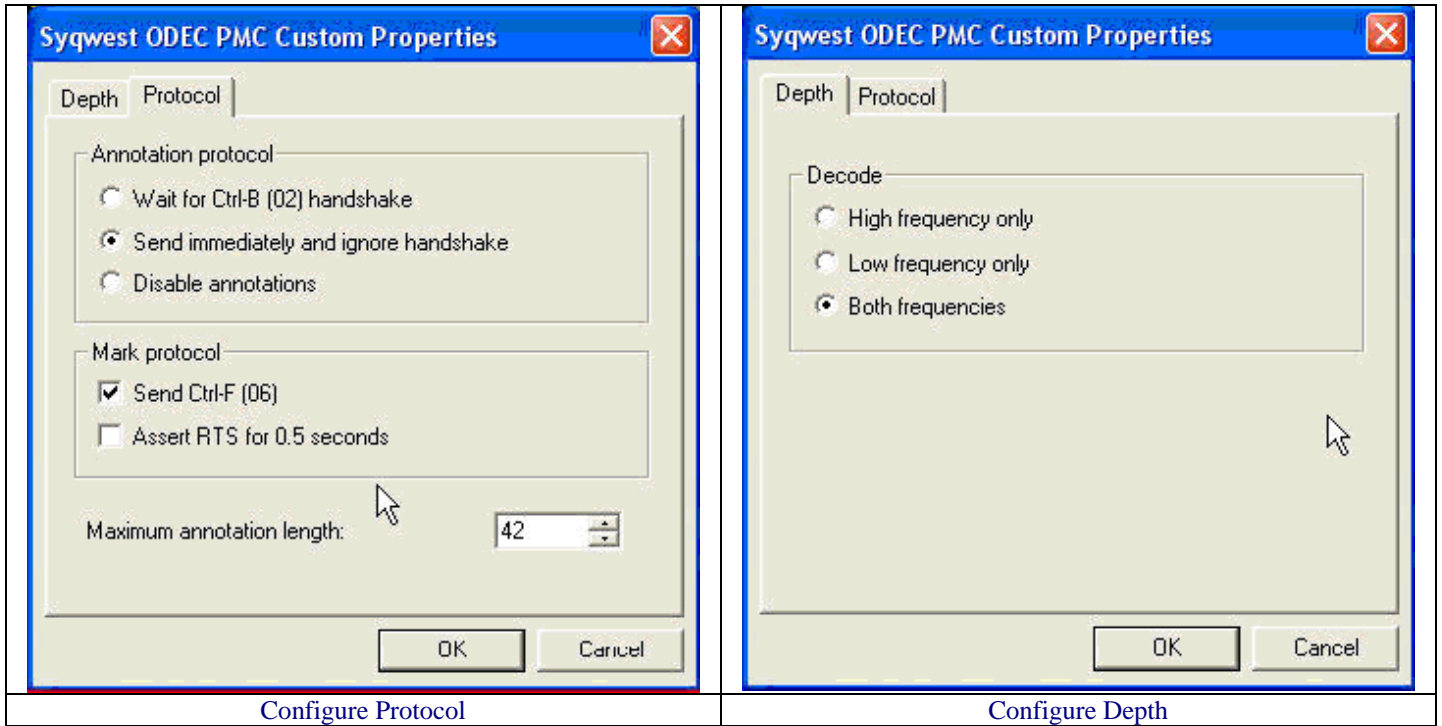
Buttons: Test... OK Cancel Help

Equipment Ports



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CONFIGURE SyQwest ODEC PMC Properties as shown



Output string “**Syqwest PMC Depth (dt) Format**” Sample data strings:

```
FDT L 11.1 FT
EDT H 0.0 FT
DT H 21.0 FT
DT L 11.1 FT
```

Proprietary depth output string. Format described below.

Single Frequency Operation:

D T _ x x x x . x _FT <CR><LF> (English mode)

D T _ x x x . x x _MT <CR><LF> (Metric mode)

Dual Frequency Operation

_D T_f_ _ x x x x . x _FT <CR><LF> (English mode)

_D T_f_ _ x x x . x x _MT <CR><LF> (Metric mode)

During normal operation the "space" in front of the "D" will be blank; An "E" in this space indicates an error such as lost bottom while an "F" indicates a Fix Mark. None of these first 4 chars interest us – don't decode them.

The second character after the “T”, represented above by an f, indicates which frequency return the depth value applies to. “H” indicates a High frequency depth, and “L” indicates a Low frequency depth.

Some real data collected from the PMC / 500DF data string:

PORT: Com1, Port Type: (Serial), BITS/SEC: 9600, DATA BITS: 8, PARITY: None, STOP BITS: 1