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Bathy-500 HYDROpro Configuration

Download the zipped dll file from our website

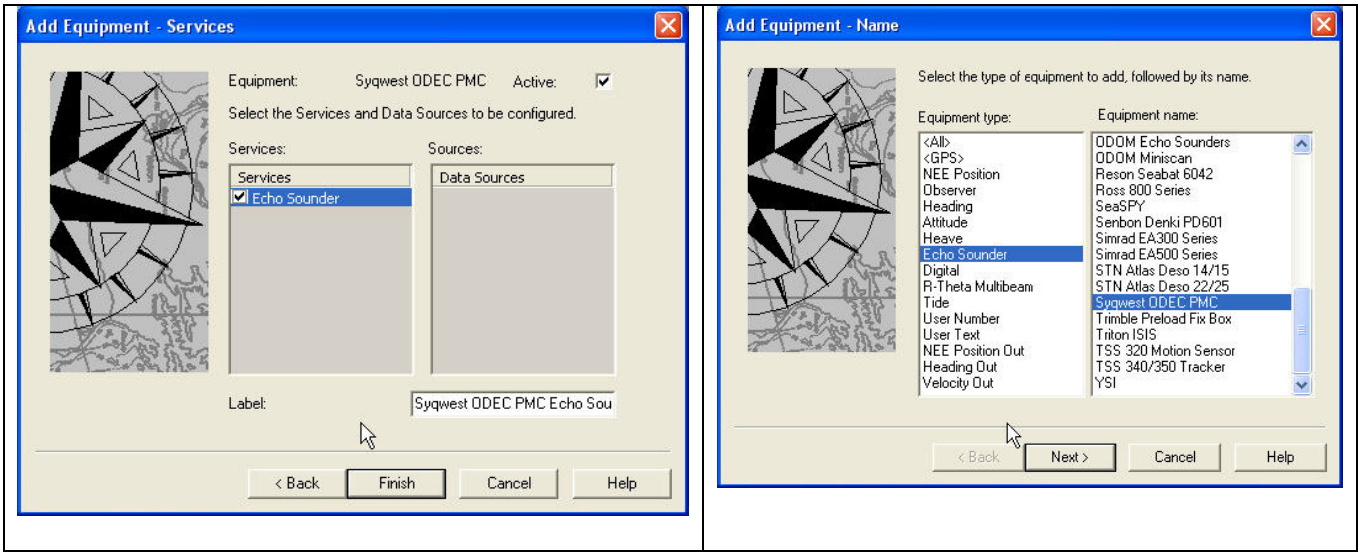
Unzip the SyQwest.dll, and place it in the C:\Program Files\Trimble\HYDROpro\Equip directory.

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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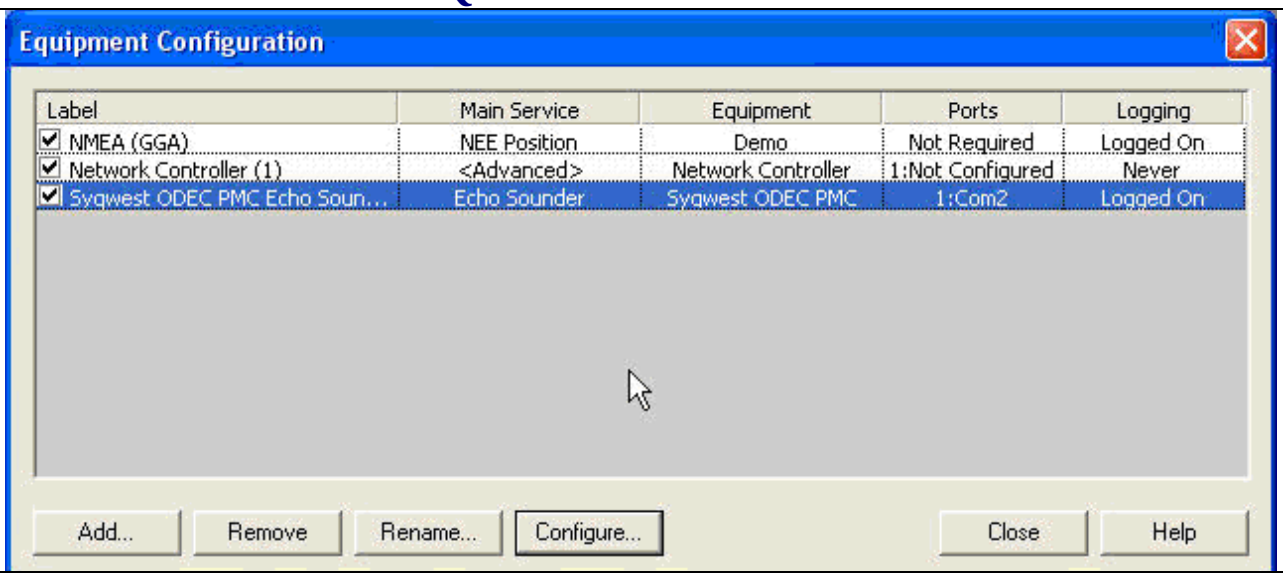
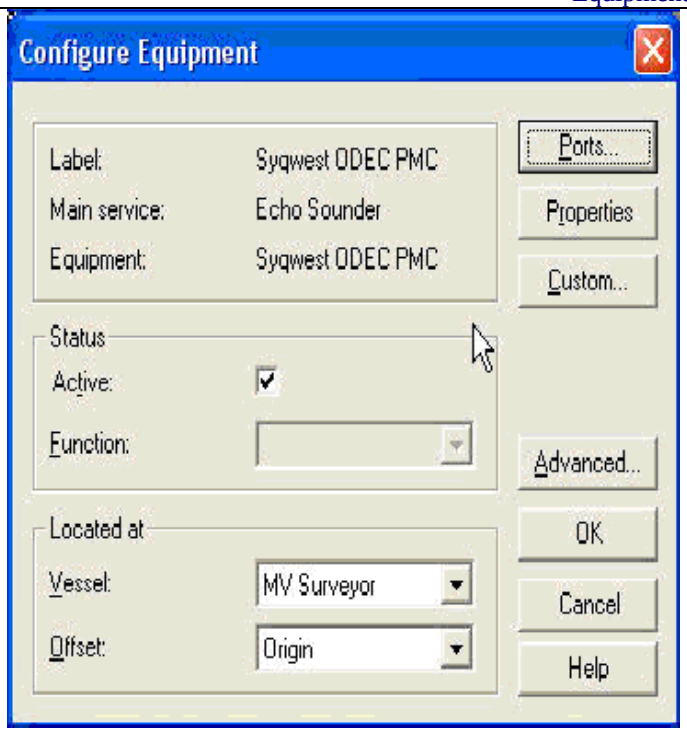
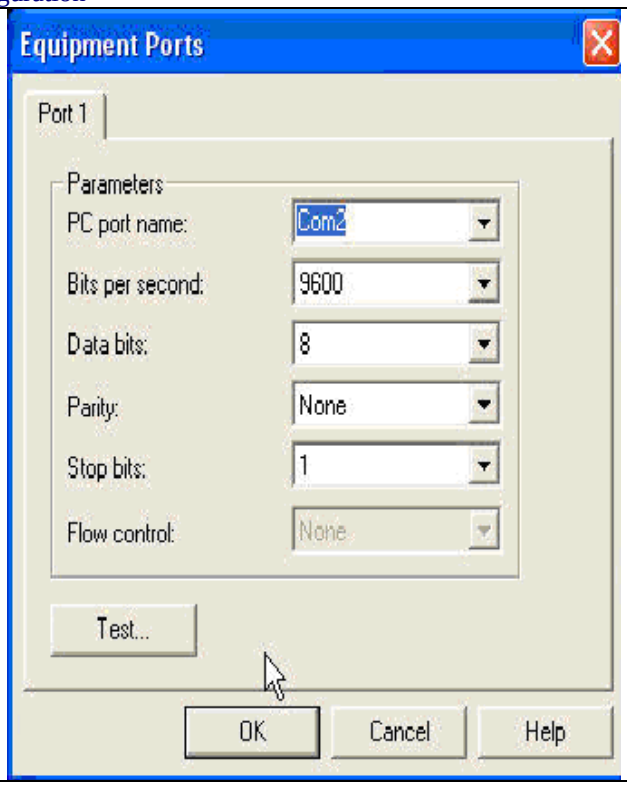
CONFIGURE EQUIPMENT SETTINGS AS SHOWN



Equipment Configuration



Configure Equipment



Equipment Ports

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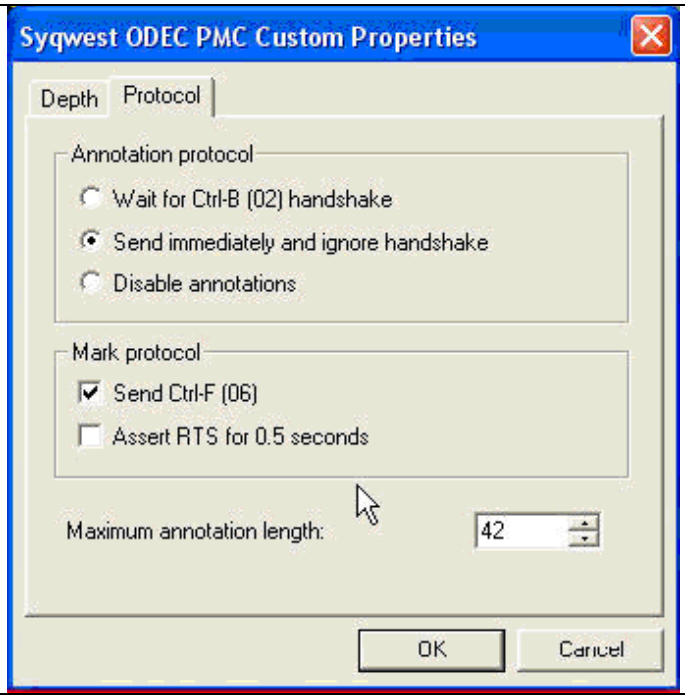
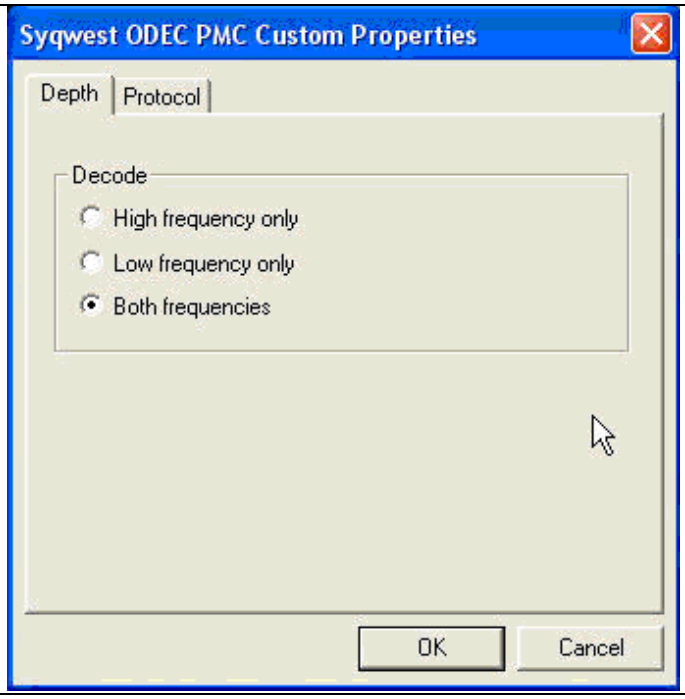
CONFIGURE SyQwest ODEC PMC Properties as shown



Configure Protocol



Configure Depth

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