| SKIPPER L | DATA BULLETIN | Number | SDB_ETT985_03 |
|------------------|----------------|---------|--|
| For System | ETT985 | Date | 5.02.13 |
| Serial from / to | ALL | Author | PC |
| 0 | ; and adjustin | 0 | |
| ETT98 | 5 device and | softwai | ce de la companya de |
| 0 | 5 device and | 0 | |

The ETT985 tester has a set of transducer test parameters in its internal memory, these are initially set by SKIPPER to reflect our current transducers range, and consist of max and min values of impedance and frequency. As well as some guidelines for bandwidth (Q). These cannot be adjusted by the customer, but can be removed if not relevant.

Show Table

S ETT985 1.44 Setup Echo Sounder Simulator Transducer Test Help Echosounder Tables Transducer Tables NMEA Tables Skipper Presets Version: 1.04 Zmax Enabled Title Fmax Fmin Zmin Start Stop Step Qmax \checkmark ETN024 26 22 100 5 16 32 0.1 10 1 ETN038 40 36 100 5 28 48 01 10 V 100 ETN050 54 46 194 40 60 0.1 10 V ETN200S 210 190 180 220 10 194 100 1 **v** ETN200 190 220 100 20 180 10 210 1 1 ETN50200 230 180 188 94 170 230 1 10 User Defined Presets Enabled Title Fmax Emin Zmax Zmin Start Stop Step Qmax

Transducer Tester parameters

The NMEA tester of the ETT has a set of preprogrammed sentences. These cannot be changed, however there are some lines allowing the user to program their own sentences and these are downloaded to the unit.

SKIPPER Electronics AS, Enebakkveien 150, 0680 Oslo, Norway, w

NMEA tester parameters

Read Presets From File

| tup Echo Sounder Simulator Transducer Test | Help Echosounder Tables Transducer Tables NMEA Tables |
|--|---|
| MEA Skipper | |
| Title | NMEA Message |
| GPS | GPVTG,171.5, T., 05.52, N., A*25 |
| GPS | GPGLL,5718.7574,N,00550.1394,E,120734.12,A*01 |
| SPDLOG | VDVBW,10.00,2.34,A,14.99,-2.48,A*73 |
| SPDLOG | VDVLW,54321.0,N,123.4,N,99998.7,N,12345.6,N*52 |
| GYRO | HETHS,12.1.A*1F |
| GYRO | HEHDT.017.95,T*15 |
| GYRO | TIROT,4.94,T*17 |
| SOUNDER | SDDBT,164.04,f;50.00,M,27.34,F*36 |
| SOUNDER | PSKPDPT, 10.3, -0.5, 100, 5, 2, FWD*21 |
| SOUNDER AFT | PSKPDPT.10.3,-0.5,100,5,1,AFT*24 |
| EML SENSORS | PSKPVBWF,10.00,2.34,A,,V*12 |
| | |
| | NMFA Messane |
| MEA User Defined | NMEA Message |
| MEA User Defined | |

The SKIPPER service software contains tests for echosounders containing test parameters for the return pulse, setup parameters for the sounder under test (for the user to set), limits of the measured pulse, and an expected picture of the screen. Also a comment field that allows an explanation of how to do the test.

Simulator Parameters

| Skipper Echo Sounder Simulator Presets 106 | 000 400 315 555 550 450 450 5000 2550 450 6000 2550 450 6000 2510 450 600 316 450 2100 450 450 210 315 210 315 210 315 210 315 210 315 | MePariod MarP 315 335 315 335 315 335 600 700 600 700 600 700 330 700 330 700 330 700 330 337 335 35 335 35 337 700 330 700 330 700 335 35 337 700 337 700 337 700 337 700 337 700 337 700 337 700 335 35 335 | Period Mir/Vpp 1100 1600 520 1220 520 520 500 950 1000 1200 | MaxVpp 1500 2200 800 1500 800 700 700 700 1200 1500 | Connect Connect Connect Connect Remove Connect Connect GDS102 | Image GDS101 GDS101 GDS101 GDS101 GDS101 GDS102 GDS102 GDS102 GDS102 GDS102 | Fish | Fish Width 5120 200 1000 0 0 0 0 0 0 0 0 | Fish Depth 2 2 2 0 0 0 0 0 0 0 | 2 2 0 0 0 | Fish Off 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
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| Tete Freq. Vpp Bellom Deglin Selfue Deglin Selfue Selfue Deglin Selfue Selfue Selfue Selfue | 00 00 36 00 00 35 00 60 36 00 100 60 000 200 60 000 200 60 000 200 60 000 210 35 000 200 60 000 200 60 50 36 60 50 26 60 90 210 35 | 315 335 315 335 300 750 600 700 330 430 600 700 330 430 600 700 315 335 | 1100 1600 520 1200 521 900 500 950 1000 | 1500 2200 800 1500 800 2200 700 1200 1500 | Connect Connect Connect Remove Change r. Remove Connect Connect THIS TE | GDS101 GDS101 GDS101 GDS101 GDS101 GDS102 GDS102 GDS102 | Fish | Width 5120 200 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Depth 2 2 2 0 0 0 0 0 0 0 0 0 0 | On 2 2 2 0 0 0 0 0 0 0 0 0 | 3 3 3 0 0 0 0 0 0 0 0 0 |
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| rEchosounder Simulator Presets | | | | | | | | | | | |
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| | | MinPeriod MaxP | Period MinVpp | MaxVpp | Comment | Image | Fish | Fish Width | Fish Depth | Fish On | Fish Off |
| | | | | | | | | | | | |
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Adding new NMEA messages

Most tables are initially locked for change, however the NMEA is open to all Users. Simpley write in the NMEA command, giving a short title (max 13 characters) to be displayed on screen. And The actual message to be transmitted. Ensure the checksum is correct.

Once programmed, click on the send to ETT button to program the ETT. If something goes wrong, try restarting over again. In the worst case, if the ETT locks or stops working correctly, do a master reset (turn on ETT with ESC pressed)

Adding new Transducers/Echosounders

The Transducer tables is initially locked, as it should not be necessary to update these. If you wish to

add another transducer, make a short cut to the software, and right click on that. Go to properties and add the following test – tab to the end of the shortcut.

Right click on the desktop and NEW - shortcut.

Add the shortcut to the Service software

| Create Shortcut | × |
|--|--------|
| What item would you like to create a shortcut for? | |
| This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses. | |
| Iype the location of the item: Browse CSSkipper(SkipperGeniceSoftware/ServiceSoftware.exe Browse | |
| Click Next to continue. | |
| | |
| | |
| Next C | Cancel |

Right click on the new icon, and add –tab at the end of the target line.

| Tab ServiceSoft | ware.exe Properties |
|----------------------|--|
| General Shortcut | Compatibility Security Details Previous Versions |
| Tal | b ServiceSoftware.exe |
| Target type: | Application |
| Target location: | SkipperServiceSoftware |
| <u>T</u> arget | er\SkipperServiceSoftware\ServiceSoftw re.exe -tab |
| Start in: | C:\Skipper\SkipperServiceSoftware |
| Shortcut key: | None |
| <u>R</u> un: | Normal window 💌 |
| Comment: | |
| Open <u>F</u> ile Lo | cation Change Icon Advanced |
| | |
| | |
| | |
| | OK Cancel <u>Apply</u> |

Click ok, Now when you click on that shortcut you will have access to add new lines to the tables.

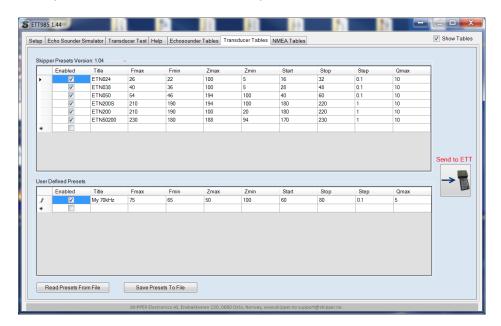
Adding new Transducers

You can now enter your own User defined preset you must enter the following:

• **Test range** for the sweep of the analysis (make sure this sweep only encompasses the resonance of interest, making it too wide will maybe make the system find other resonances. *The tester will scan in the range you set, and present data at the resonant point (lowest Z) and at the mid point between Start and Stop, it is assumed this point is the desired manufacters frequency. So make the scan equal above and below that frequency*

- Max / Min impedence (Z) usually provided in the manufacturers spec sheet
- Title max 8 characters
- **QMAX.** The max bandwidth Q this to make sure the system has a proper resonance,1 is widest.

Once you have entered the new device, you can save the values and / or load the values to the ETT.



The file you have made can be saved and used by any other tester, even without software activation.

Adding new Echosounders

Enter the Echosounder tables tab

The table consists of user settings on the Sounder, settings on the simulator, and max min values for the received pulse. Using the software, set up the simulator to give the results you require. We find the most interesting test is to set up a powerful output pulse, and return ,the smallest return that can be detected. Take a picture of the sounder screen and reduce it to 640x480 fomat.

Enter the following information:

- Title, recommended <30 characters
- Frequency; simulator frequency
- Vpp ; The return voltage (mV)
- Bottom width
- Bottom depth (remember TVG has effect in the shallow range)
- Set FReq, the user setting for frequency on sounder
- Set Range, the screen depth range
- Set Gain, Valuse on screen
- Set TVG, value on screen

- Max Min Freq (the required frequency of the output pulse)
- Max min width, the required pulse width of the output
- Max min VPP Required voltage of the output pulse (note these values should be taken from the simulator, the load is 300 ohms in this unit and the load will change the output value.)
- Comment , the instruction to the user of how to perform the test
- Image, the name of the file in the expected images folder (under the software folder)
- Fish , if you require fish in the water column, these are set here.

| ripp | er Echo | sound | ler Sim | ulator F | resets | 1.06 | | | - | | | | | | | | | | | | | | | | | | |
|------|---------|-------|---------|----------------|---------------|-------|----------|-------|------|--------|------|--------|------|------|------------|------------|------|------|-----|------|--------|------|---------------|--------|-------------|------|-------------------|
| | Title | Freq. | Vpp | Botto Width | Botto Dept | SetFr | SetR | SetG | SetT | SetP | MinF | MaxF | MinW | MaxV | MinP | MaxF | MinV | Max\ | Com | Imag | Fish | | Fish Deptl | | Fish Off | | |
| | GD | 200.0 | 0.63 | 320 | 11.0 | 200 | 50 | 20 | 36 | 100 | 198 | 202 | 200 | 300 | 315 | 335 | 1100 | 1500 | Co | GD | | 5120 | 2 | 2 | 3 | | |
| | GD | 50.0 | 0.50 | 320 | 11.0 | 50 | 50 | 20 | 36 | 100 | 46 | 54 | 300 | 400 | 315 | 335 | 1600 | 2200 | Co | GD | | 200 | 2 | 2 | 3 | | |
| | GD | 38.0 | 0.50 | 320 | 11.0 | 38 | 50 | 20 | 36 | 100 | 34 | 42 | 350 | 550 | 315 | 335 | 520 | 800 | Co | GD | | 1000 | 2 | 2 | 3 | - | |
| | GD | 200.0 | 0.05 | 323 | 300.0 | 200 | 500 | | | 100 | 198 | 202 | 900 | 1300 | 600 | 700 | 1200 | 1500 | | GD | | 0 | 0 | 0 | 0 | = | |
| | | | 0.10 | | 300.0 | | 500 | | | | | | | 2500 | | | | | Ch | GD | | 0 | | 0 | 0 | | |
| | GD | | 0.13 | | 300.0 | | 500 | | | | | | | 2100 | | | | 2200 | | GD | | 0 | | 0 | 0 | | |
| | | 200.0 | | | | 200 | | | | | | | 303 | | 330 | | | | Co | GD | | 0 | | 0 | 0 | _ | |
| | GD | | 0.60 | | | 50 | 50 | | | | 46 | | | | 300 | | | 1200 | | GD | | 0 | - | 0 | 0 | | |
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Loading in new files from SKIPPER

Normal users can load in files and download them into the ETT985

If new files are available from SKIPPER, the software will say this when it is connected to the network.

Click on these files and they will be downloaded to the SKIPPER downloads folder (you can view this using the button on the first page)



Once downloaded if you enter the ETT page and click on the tables tab, you will find a message in the tables , asking if you wish to upgrade.

Clicking on this will change the table on the PC and you can then download this to the ETT device

Loading in files not made by SKIPPER

It is possible to load in presets from other manufacturers than SKIPPER.

- Simply start the software,
- Go to the ETT page,
- click on the Tables tab.
- Go to the table you require, press load, find the file
- Download to the ETT if required.



| Scho Sounder Simulator | | | | | | | | | | |
|---|----------------------|---------------|-------------------|-------------------|------------------|------------------------|--------------|--------|----------------|------------|
| er Presets Version: 1.04 Enabled Title | Fm | | Finin | Zлак | Zeie | Start | Step | Step | Gmax | 1 |
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| Z ETN | 200 210 50200 230 | | 190 | 100 | 20 | 153 | 220 230 | 1 | 10 | |
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| Enabled | Tido | Frax | Finin | Znax | Znie | Start | 984 | Step | Gwax | |
| • 2 | ETN024 ETN038 | 26 40 | 22 | 100 | 5 | 16 | 32 | 01 | 10 | |
| 2 | ETN050 | 54 | -45 | 194 | 130 | 40 | 60 | 01 | 10 | |
| 2 | ETN2005 ETN200 | 210 | 190 | 194 | 100 | 183 | 220 | 1 | 10 | |
| | ETNS0000 | 230 | 100 | 108 | 54 | 130 | 230 | 1 | 10 | |
| • | | | | | | | | | | - |
| | | | | | | | | | | - |
| User Defined Presets | Téo | Frax | Frein | Zwan | Znie | Start | 580 | 9 Stag | Gmax | -h - |
| Enabled | My 70kHz | 75 | 6 | 50 | 130 | 60 | 80 | 0.1 | 5 | |
| Enabled | | | | | | | | | | |
| Enabled | | | | | | | | | | |

Note , if the SKIPPER values change, you will be given the ption to insert these into your table.

If you have too many extra transducers, The memory will fill up, in this case you must deselect some of the transducers

| | Enabled | Title | Fmax | Fmin | Zmax | Zmin | Start | Stop | Step | Qmax | |
|----------|---------------------|----------|-------|------|------|------|-------|------|------|-------|--|
| | ✓ | ETN024 | 26 | 22 | 100 | 5 | 16 | 32 | 0.1 | 10 | |
| | 1 | ETN038 | 40 | 36 | 100 | 5 | 28 | 48 | 0.1 | 10 | |
| | v | ETN050 | 54 | 46 | 194 | 100 | 40 | 60 | 0.1 | 10 | |
| | v | ETN200S | 210 | 190 | 194 | 100 | 180 | 220 | 1 | 10 | |
| | v | ETN200 | 210 | 190 | 100 | 20 | 180 | 220 | 1 | 10 | |
| | v | ETN50200 | 230 | 180 | 188 | 94 | 170 | 230 | 1 | 10 | |
| <u> </u> | | | | | | | | | | | |
| | | | Emax | Emin | Zmax | Zmin | Start | Stop | Step | Qreax | |
| | Enabled | Title | rmax | | | | | | | | |
| | Enabled | Title | Finax | | | | | | | | |
| 6 | | Title | rmax | | | | | | | | |
| • | | Title | Pmax | | | | | | | | |
| • | | Title | P max | | | | | | | | |