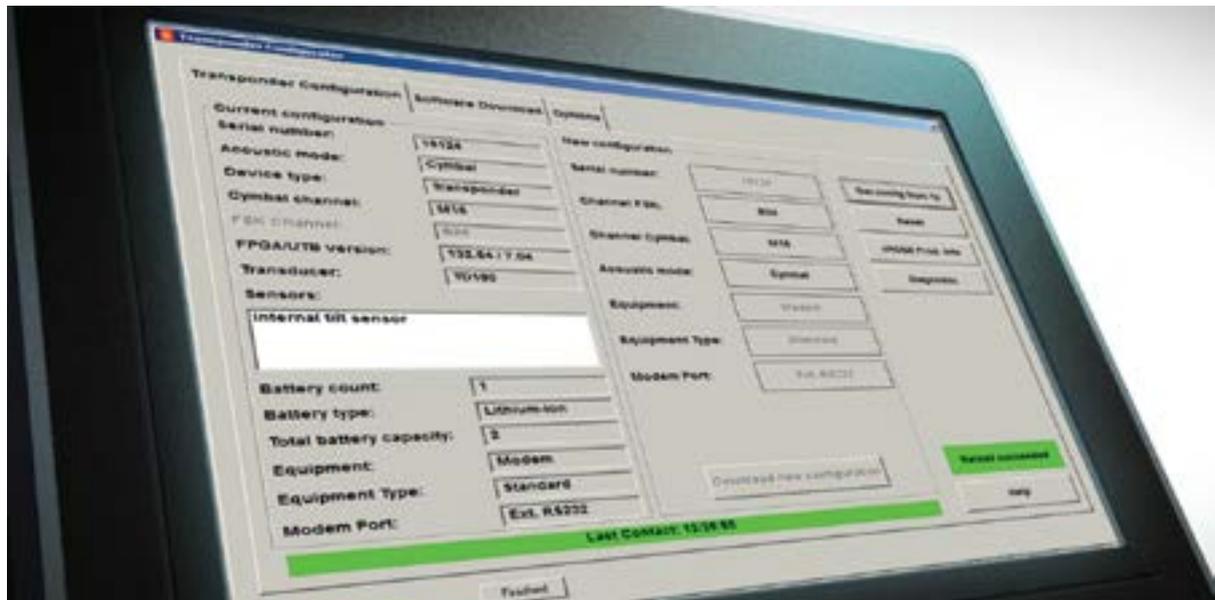


TTC Light

Transponder test configuration tool



TTC Light is a simple software that runs on your Windows PC for configuration of the cNODE® family of transponders. TTC Light can also be used to acoustically test other transponders on deck by connecting a cNODE MiniS to the PC.

Scope of supply

- cNODE MiniS Configuration cable for PC
- cNODE Maxi/Midi/Mini Configuration Cable for PC
- Serial adapter cable, USB to RS-232
- USB Memory stick with TTC Light installation programs, Product key (activation code) and TTC Light Quick Start Guide

Specifications

Product	cNODE Micro 31-180
Country of origin	Norge
Manufacturer	Kongsberg Discovery

Prerequisites

The computer where you intend to install the software must run Windows® 7 operating system (or above) and have internet connection available for the initial setup.

Procedure

- Start the computer.
- Ensure that the computer is connected to the internet
- Insert the USB memory stick:
 - Run the 'TTCLightxxx.exe' file on the USB memory stick and follow the installation wizard
 - Two new icons have been placed on the desktop; one for Transponder configurator and one for Transponder tester. Click the Transponder configurator icon on the desktop to run the Transponder configurator tool.
 - Use your Product Key to activate the license:
 - Select 'Activate license online now' in the activation menu.The activation menu should automatically appear the first time you run the Transponder configurator
 - Enter the license key found in the file 'License.txt' on the USB memory stick.
 - Note: Once the activation is complete, internet connection is no longer necessary.
- Select Options and Serial configuration to select the correct serial port for the configuration cable

TTC Light is now ready to be used as a configuration Tool.

Software download to the cNODE MiniS

The cNODE MiniS may need to be upgraded to the latest software version. To do this, it must be connected to the computer via the relevant cable. Use the Transponder Configurator program to download the new cNODE MiniS software.

Procedure

- Start the Transponder Configurator using the icon on the desktop
- Select the tab Software Download
- Select cNODE Transponder and Download
- Use Open to select the file (for cNODE MiniS it is <version>.kmd')
- Select Start loading. It may take up to 22 minutes to download. A progress bar will appear and then a message reading 'Software download succeeded' will confirm when the download is completed.
- Select the tab Configuration
- Select Get config from Tp to check that the software has been updated to the latest version.

The TTC Light is now ready to be used as Transponder Tester with the cNODE MiniS.

Configuration of transponders

Use the Transponder Configurator program to change settings in the transponders, such as Channel or to choose between FSK and Cymbal acoustic protocols.

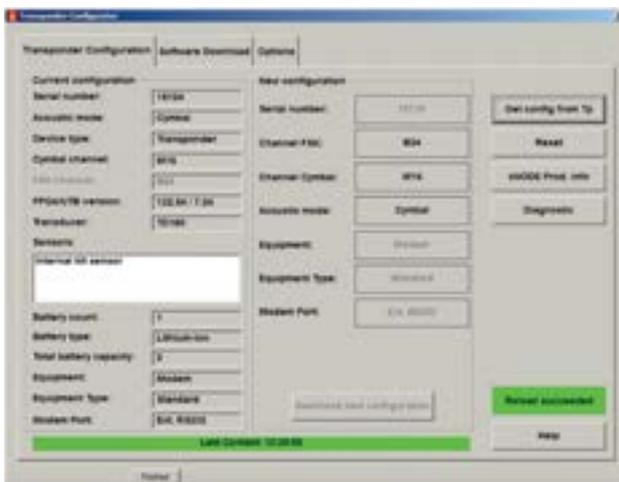
Prerequisites

The transponder must be connected to the computer via cable and all relevant programs must already be installed on the computer.

Procedure

- Start the Transponder Configurator
- Select the tab Configuration
- Select Get the config from Tp
- Add/change the relevant information
- Select Download New Configuration.

The transponder will confirm the download and is now ready for operation with the new settings.



Transponder testing mode

Connect the cNODE MiniS configuration cable from the cNODE MiniS transponder to the USB serial adapter or the computer serial port. The MiniS transponder can now be placed close to the transponder to be tested (transducers must be close to each other).

The Transponder Tester program can now be used to perform an acoustic deck-test of other transponders. The program is started by selecting the Transponder tester on the desktop.

Procedure

- Connect the cNODE MiniS to the configuration cable
- Start the Transponder Tester program
- Enter the channel number and serial number of the transponder to be tested
- Place the transponder that is going to be tested with its transducer facing the cNODE MiniS transducer (see fig.1)
- Select Interrogate to activate the transponder in SSBL mode
- Select Read parameters to see the program version and settings
- Select Execute release to test the release mechanism (if the transponder has one)
- Select Read sensors and Sensor type (if applicable to the transponder).

The transponder will confirm the download and is now ready for operation with the new settings.



Figure 1