

TTC - Transponder Test and Configuration unit

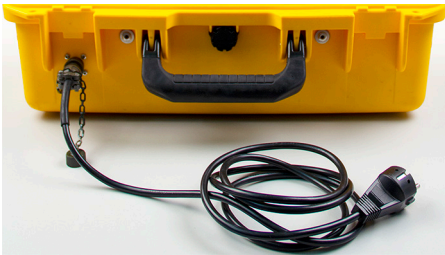
Quick Reference Guide



KONGSBERG

Connecting to AC power and charging the unit's battery

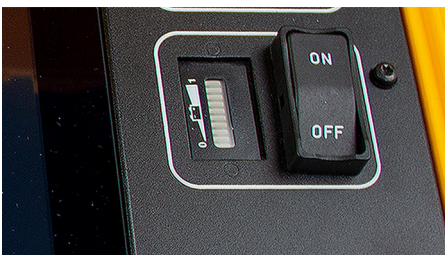
- (1) Connect and secure the power cable to the unit's power connector. The power connector is located below the left latch.
- (2) Connect the power cable to a 110/230 VAC power supply.



Only use the power cable supplied with the unit. Do not use if damaged or excessively worn. Contact Kongsberg for a replacement. The unit is equipped with a rechargeable battery providing 3 hours or so of operation when fully charged. Connect the power cable to a 110/230 VAC power supply if the battery's state of charge drops to LOW during operation.

Switching the unit on and off

The ON/OFF switch is located on the right, labelled ON OFF. When switched on, the unit can either run on power from an external 110/230 VAC power supply or on power from the internal battery. It is not necessary to disconnect the unit from the external power supply during usage.



Switching the unit on

Press down the side labelled ON on the ON/OFF switch to switch on the unit. The unit's PC will boot up. Booting up takes approx. 1.5 minutes.

Switching the unit off

Press down the side labelled OFF on the ON/OFF switch to switch off the unit. The unit's PC will shut down.

Standby mode

The unit's PC will automatically go into standby mode if no input has been detected for 5 minutes. In standby mode, the screen will go to sleep and turn black.



Touch the screen or move the trackball to wake the screen and to return to operational mode.

User interface

The unit's user interface consists of buttons, ports, a switch, a trackball and a touch screen. The touch screen's graphical user interface is described in the acoustic test and transponder configuration topics since the touch screen is mostly used during these activities.



On top, in the upper right corner there are two ports with protection caps labelled SERIAL and TRANSDUCER. The serial port is used during transponder configuration and the transducer port is used during acoustic testing. Below these two ports there is a small, latched lid labelled USB LAN. Under the lid there are three ports for authorized service personnel only.



In the lower right corner is a trackball with two buttons. The trackball controls the on-screen pointer. The left button is used for selecting and clicking on-screen objects such as buttons and menu options. The right button is used for presenting on-screen menus and pop-up windows.

Performing an acoustic test

Before transponder deployment, it is recommended to perform an acoustic test to make sure the transponder is fully operational. Secure the transponder to minimize the risk of harm to personnel and equipment. The test transducer is for communication in air only so always set the TTC unit's power level to either minimum or low prior to testing.



- (1) Open the case.
- (2) Switch on the unit.
- (3) Connect the test transducer cable to the TRANSDUCER port in the upper right corner.
- (4) Place the test transducer face to face with the transponder transducer.
- (5) Use the left and right on-screen arrows to set the TTC power level and select the on-screen Set button to confirm. The TTC power level has two settings, minimum (Min.) and low. The default setting is minimum but either setting is safe to use.
- (6) Enter the transducer's serial number, if necessary.
- (7) Enter the transponder channel number, if necessary.
- (8) Select the on-screen INTERROGATE button to start the acoustic test. An on-screen green indicator will flash on and off confirming an acoustic contact with transponder and a successful test. The transponder is fully operational.
- (9) Select the on-screen INTERROGATE button again to end the acoustic test.

Configure or reconfigure a transponder

Follow this procedure if the transponder has to be configured or reconfigured. Secure the transponder to minimize the risk of harm to personnel and equipment.



- (1) Open the case.
- (2) Switch on the unit.
- (3) Connect the serial line cable to the **SERIAL** port in the upper right corner and to the port at the bottom of the transponder.
- (4) Select the on-screen **Transponder Configuration** tab. A green horizontal bar at the bottom of the tab with the last contact time superimposed on it confirms data transaction between the unit and the transponder can take place. The unit is ready to configure the transponder. A red horizontal bar confirms data transaction failure between the unit and the transponder. In the event of a data transaction failure, check cable connections and select the on-screen **Get config from Tp** button again.
- (5) Select the **Download new configuration** button to update the transponder. The transponder's configuration data are updated. A green "Reload succeeded" message in the lower right corner of the tab confirms the transponder configuration was successful. A red "Download config failed" message in the lower right corner of the tab confirms the transponder configuration failed. In the event of a transponder configuration failure, check cable connections and select the on-screen **Download new configuration** button again.
- (6) Perform an acoustic test after the transponder has been configured or reconfigured to verify that the transponder is operational.

Storage and maintenance

Place the unit on a steady and level surface. Secure the unit to minimize the risk of harm to personnel and equipment.



The battery must be fully charged when the unit is put in storage. Clean the unit and charge the battery at least every 12 months during storage. Charge the battery more frequently if the storage temperature regularly exceeds 25 °C.

Support information

Should you need technical support for your TTC system you must contact a Kongsberg Maritime office. A list of all our offices is available on our website. You can also contact our main support office in Norway.

Manuals and technical information can be downloaded from our support website.

Support website:

www.kongsberg.com/maritime/support/product-support-a-z/

Website:

www.kongsberg.com/maritime/

Email address:

km.support.hpr@kongsberg.com

Company name: Kongsberg Maritime AS

Address: Strandpromenaden 50, 3183

Horten, Norway

Telephone: +47 33 03 41 00

Telephone 24h support:

+47 33 03 24 07