Phocus3 Programming and Readback

Quick Reference Guide – IXD-739-QRG-044/4.1

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Introduction

This document provides guidance on setting up and downloading data from the Phocus3 acoustic logger. Logger programming and readback is carried out using the Communications Module.

Loading program into the Communications Module

- Open the Phocus3 software.
- Connect the Communications Module into the computer USB port and select Comms Module to display screen.
- Click 'Program' and select mode of operation as required.
- Adjust 'start time' (by default 02:00AM) and select 'Program' to transfer logger configuration to the Comms Module.
- To save a new configuration select 'Save Configuration'.

Programming Loggers

- To switch on the Comms Module hold down the 'Home' key.
- There are two methods of communication;
  - Infra-Red (IR); this communicates with a single logger and has a range of up to 0.5 metres
  - Radio; this can program multiple loggers and has a range of up to six metres.
- Select IR or Radio communications by using left/right arrow keys to scroll to page 5/5. The icons (shown here) will appear. Press the Play ▶ button to select the required communication.
- To program a logger use the left/right arrow keys scroll to page 1/5. Press the Play ▶ button to select.
- In IR communications mode point the Communications Module at the logger and again press ▶ button until the beep sounds. The next logger may then be programmed with the same set-up. Avoid IR communication in direct sunlight as this may result in communications failure – simply providing shade will avoid this difficulty.
- In Radio communications mode point the Comms Module in the general direction of the logger(s) and press ▶ button. Loggers within range are listed on the display. Select the logger to be programmed. This must be repeated for all loggers requiring to be programmed.

Data Collection

- Switch on the Comms Module and select IR or Radio Communications. Avoid IR communication in direct sunlight as this may result in communications failure – simply providing shade will avoid this difficulty.
- For local logger 'Readback', scroll through the options on the Communications Module using the left/right arrow keys to select 2/7. Press Play ▶. Point the Communications Module at the logger and press Play ▶.
- The logger data will be displayed on the Communications Module.
  - The 'leak' symbol displays the Leakage Confidence Factor (LCF)
  - The 'loudspeaker' symbol displays the Critical Noise Value (CNV)

- Logger battery level is displayed
- The logger will remain in 'Run' mode unless the 'Stop' ∎ key is pressed.
- The '%' indicates the amount of Comms Module memory used and the '+' shows the number of new read-backs to be viewed.

- To read back the sound file press and hold either the left or right arrow key.

On-Site Leak Listening

- Live on-site leak listening is available. Connect headphones to the Communications Module.
- Scroll through the options on the Communications Module using the left/right arrow keys to select 3/7. Press Play ►.
- Headphone volume may be adjusted using the arrow keys. Listening continues for 60 seconds or until the 'Stop' ∎ key is pressed.

Data Transfer to Computer

- Open the Phocus3 software and then plug Communications Module into the computer. Select Comms Module and then select 'Readback.'
- The data is now available to view. Select 'Data table.'
- Click on the logger serial number to view the logger daily CNV and LCF history.
- Click on logger individual daily values to show the epochs as a histogram in 2D or 3D format.