

*gListen Board (MMCB, sensor icListen HF)
Command Line Interface (CLI) Guide*

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Command Line Interface (CLI)

Show commands

show sensor info

Command syntax:

show sensor info

Description:

Command display icListen hydrophone status and information.

Output:

"Sensor type: "

Correspond to icListen Command & Control Telemetry codes below

- 01 icTalk LF
- 02 icListen LF
- 03 Standalone Guest Sensor
- 04 icTalk HF
- 05 icListen HF
- 07 icListen AF
- 41 icListen MF

"Serial num: "

Serial number of the icListen hydrophone.

"FW version: "

icListen hydrophone firmware version.

"Build date: "

icListen hydrophone firmware build date.

"Status: "

Status of USB connection. 0 means the icListen hydrophone is connected. 1 means the icListen hydrophone is disconnected.

show sensor triggers

Command syntax:

show sensor triggers

Description:

Command display information about the configured triggers on the isListen hydrophone.

Output:

Table with 5 rows, one row per trigger. Each column in table described as:

"Id"

Trigger ID. Range **0-4**.

"Status"

Status of the trigger. Values: **E**-enabled, **D**-disabled.

"MinF"

This is the minimum frequency in the range checked by this trigger, set in **Hz**.

"MaxF"

This is the maximum frequency in the range checked by this trigger, set in **Hz**.

"Type"

Trigger test type. Values: **AB** - signal is above the threshold, **BL** - signal is below the threshold.

"Thr"

This is the threshold against which data is checked, set in **dB**.

"Unit"

Trigger test threshold units. **P**-for dB re 1 μ Pa, **V**- for dB re 1V.

"Dur"

The **number of seconds** a signal must be present to activate the trigger.

"Hold"

The **number of seconds** a trigger remains active after a signal goes away.

"Log_W"

Log waveform data. Values: **E**-enabled, **D**-disabled.

"Log_S"

Log spectrum data. Values: **E**-enabled, **D**-disabled.

show mmcb info

Command syntax:

show mmcb info

Description:

Command display gListen Board information.

Output:

"MCU Ver:"

MCU module version.

"MB Ver:"

Motherboard module version.

"M1 Ver:"

Module 1 module version.

"M2 Ver:"

Module 2 module version.

"HW ID:"

Hardware ID.

"SW ID:"

Software ID.

show mmcb clock

Command syntax:

show mmcb clock

Description:

Command display current RTC time and date on gListen Board.

Output:

"System clock: hh:mm:ss DD/MM/YY"

show mmcb settings

Command syntax:

show mmcb settings

Description:

Command displays gListen Board network settings.

Output:

"IP address: X.X.X.X"

IPv4 address of the gListen Board.

"Netmask: X.X.X.X"

IPv4 netmask of the gListen Board.

"Gateway: X.X.X.X"

IPv4 gateway of the gListen Board.

"Sensor IP: X.X.X.X"

IPv4 address of the icListen hydrophone.

Set commands

set clock

Command syntax:

```
set clock <datetime>
```

Description:

Command sets gListen Board and icListen hydrophone RTC time and date. Year format is last 2 digits.

Available options for <datetime>: hh:mm:ss DD/MM/YY

set sensor trigger status

Command syntax:

```
set sensor trigger <ID> <status>
```

Description:

Command sets status of icListen hydrophone trigger.

Available options for <ID>: range **0-4**.

Available options for <status>: **enable** – enable the trigger, **disable** - disable the trigger.

set sensor trigger duration

Command syntax:

```
set sensor trigger <ID> duration <duration_time>
```

Description:

Command sets duration time of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <duration_time>: **number of seconds** a signal must be present to activate the trigger.

set sensor trigger hold

Command syntax:

```
set sensor trigger <ID> hold <hold_time>
```

Description:

Command sets hold time of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <hold_time>: **number of seconds** a trigger remains active after a signal goes away.

set sensor trigger min_freq

Command syntax:

```
set sensor trigger <ID> min_freq <frequency>
```

Description:

Command sets minimum frequency of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <frequency>: minimum frequency in the range checked by this trigger, set in **Hz**.

set sensor trigger max_freq

Command syntax:

```
set sensor trigger <ID> max_freq <frequency>
```

Description:

Command sets maximum frequency of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <frequency>: maximum frequency in the range checked by this trigger, set in **Hz**.

set sensor trigger threshold_unit

Command syntax:

```
set sensor trigger <ID> threshold_unit <unit>
```

Description:

Command sets threshold unit type of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <unit>: **pressure** - for dB re 1µPa, **voltage** - for dB re 1V.

set sensor trigger threshold

Command syntax:

```
set sensor trigger <ID> threshold <threshold_value>
```

Description:

Command sets threshold of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <threshold_value>: threshold against which data is checked, set in **dB**.

set sensor trigger log_wave

Command syntax:

```
set sensor trigger <ID> log_wave <status>
```

Description:

Command sets waveform logging option of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <status>: **enable** – enable logging, **disable** - disable logging.

set sensor trigger log_spectrum

Command syntax:

```
set sensor trigger <ID> log_spectrum <status>
```

Description:

Command sets spectrum logging option of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <status>: **enable** – enable logging, **disable** - disable logging.

set sensor trigger type

Command syntax:

```
set sensor trigger <ID> type <trigger_type>
```

Description:

Command sets spectrum logging option of icListen hydrophone trigger.

Available options for <ID> : range **0-4**.

Available options for <trigger_type>: **s_below** – signal is below the threshold, **s_above** - signal is above the threshold.

set sensor ip4address

Command syntax:

set sensor ip4address <address>

Description:

Command sets icListen hydrophone IPv4 address.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

set sensor power

Command syntax:

set sensor power <status>

Description:

Command changes the icListen hydrophone power line status.

Available options for <status>: **enable** - set power on, **disable** - set power off.

set mmcb ip4address

Command syntax:

set mmcb ip4address <address>

Description:

Command sets gListen Board IPv4 address.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

set mmcb ip4mask

Command syntax:

set mmcb ip4mask <address>

Description:

Command sets gListen Board IPv4 mask.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

set mmcb ip4gateway

Command syntax:

```
set mmcb ip4gateway <address>
```

Description:

Command sets gListen Board IPv4 gateway.

Available options for <address>: IPv4 address in decimal octet format X.X.X.X.

Clear commands

clear sensor triggers

Command syntax:

```
clear sensor triggers
```

Description:

Command clears all triggers setting on the icListen hydrophone.