

DBI3-V01	URRA
dbi3_v01_r1_4_1_2020_04_25_1.odt	DBI3 V0.1 FW rev 1.4

DBI3 V01 Firmware version 1.4

Display timeouts

For **setup**, **info** and new **windlog** display, there is now a 60 sec timeout then return to **flight** display. Timeout is reset on button action.

Buttons sequence

Buttons sequence for **Fn** button selection e.g. **Info**, **Setup** and **OFF** is changed so that **Fn** button must be pressed prior to **I**, **S** or **OFF** button.

Cryptic "NAN" readout

On a hardware fault a "NAN" display for altitude, rate of climb and temperature has been read out. This is now changed to "Fault".

Log indicator

A log indicator "log.." now appears at top left part of display. Log indicator is shown when log running.

Command Line Interface

Command line interface is extended with commands for all setup items and flight data readout.

Variometer sound indicator

Sound indication for climb and descend is now implemented and can be enabled from setup display. Different sound signature and threshold for climb and descend.

GPS altitude and GPS Datum in log file

GPS altitude and GPS set datum is now added to each log record.

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Course over ground indicator

For very slow GPS speed over ground conditions, course over ground indicator now show "**slow**" instead of "---" which was cryptic.

Auto off display

During auto-off sequence and when auto-off is enabled, "**OFF**" is displayed after an audible sound warning prior to instrument turn off. Button activity will interrupt and reset auto-off timeout.

Wireless ambient temp support

Wireless ambient temp is now supported. When active, ambient temp display is prioritized with 1) wireless sensor, 2) cable sensor and 3) and with lowest priority, enclosure sensor. Ambient temp sensor source is indicated as: **AW** for wireless, **AC** for cable and **A** for enclosure.

Wind history display

Wind history display (windlog) is shown by press and hold **Fn** button for more then 2 secs.

Display show altitude, speed over ground and course over ground for the latest 36 minutes of flight with 6 minutes intervalls. Button action or timeout return to flight display.

Spurious premature stop

Spurious stop for flight timer and log session now cured.

Battery monitor

Battery monitor (battery fuel gage) is now improved to present an equitable readout.

This is most notable at extra low operating temperatures.

Wireless signal strength info page

A new info page is added showing received signal strength. Page show transmitters code and received signal strength. Signal strength unit is in dBm. Typical receiver sensitivity is -90 dBm.

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Command Line Interface FW rev 1.4

rst - restart system

? - show help

ri - rtc init

rs yyyy mm dd hh mm ss - rtc set

po - turn hard off

sm on|off - sim data

su alt {feet|meter} | roc {fpm|mps} | bar {ihg|hpa} | temp {fahr|cent} | sog {knot|mps|kmh|mph}
- set units

sa alth {off|value} | altl {off|value} | clmb {off|value} | desc {off|value} | topt {off|value} - set alarm

sf aut {off|static|timeout} | frs {off|pon|toff|toffc|lapc} | aof {off|on} | dat {222-0} - set funcs

sv resp {6.0-1.2} | audio {off|on} | clmbt {value} | desct {value} - set vario

st top {4-1} {off|9999-1} | amb {2-1} {off|9999-1} - set topt

gu alt|roc|bar|temp|sog - get units

ga alth|altl|clmb|desc|topt - get alarm

gf aut|frs|aof|dat - get funcs

gv resp|audio|clmbt|desct - get vario

gt top{4-1}|amb{2-1} - get topt

sd met|imp|urb - set defaults

fs vinit|vdel|start|stop|list|del [filename]|read[filename]|state|clear - file system

si mod|brd|date|loc{adr} str - set info

gi mod|brd|date|loc{adr} - get info

md mach|con - set CLI mode, machine or console

sn - print serialnumber

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vr - print firmware version

gl {360-1} - get wlog data

rd **presm|presb|bar|alt|roc|top|amb|ambc|ambw|lap|long|lat|sog|cog|utc|msl|all** - read DBI3 flight data

cc - battery fuel gage