

=====  
Vega Instruments Firmware Revisions  
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AHRS-1/MAG-1 Firmware Revision  
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Version 1.13 25/05/2022 (Franz Lamers)

-----  
Enhancement: Added a vertical card compass display

Version 1.12 09/11/2021 (Franz Lamers)

-----  
Enhancement: Added a pitch and bank zero function to the horizon setup menu

Version 1.11 22/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.10 12/11/2020 (Franz Lamers)

-----  
Enhancement: Added Heading bug user input  
Enhancement: Added SP-7 attitude CAN message emulation  
Enhancement: Added CAN packet filtering  
Bug: Fixed CAN/INT AHRS speed message mph reading km/h  
Bug: Fixed heading bug not showing if below 50 degrees and heading is <=359 degrees

Version 1.09 26/06/2020 (Franz Lamers)

-----  
Enhancement: Updated WMM tables

Version 1.08 18/05/2020 (Franz Lamers)

-----  
Bug: Fixed km/h and knots GPS speed to AHRS aiding

Version 1.07 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added in serial communications  
Enhancement: Added support for a new screen controller  
Enhancement: General clean up

Version 1.06 18/10/2019 (Franz Lamers)

-----  
Bug: Fixed MAG-1 to be able to display GPS pages  
Bug: Fixed GPS SOG: nm to kts

Version 1.05 26/09/2019 (Franz Lamers)

-----  
Enhancement: Added GPS display on/off menu item

Version 1.04 27/08/2019 (Franz Lamers)

-----  
Enhancement: Added GPS info display  
Enhancement: Added auto/manual magnetic variation to compass (Has to have an external NMEA GPS for auto magnetic variation calculation)

Version 1.03 10/07/2018 (Franz Lamers)

-----  
Bug: Fixed NMEA km/h conversion

Version 1.02 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup

Version 1.01 18/09/2017 (Franz Lamers)

-----  
Bug: Fixed the security code not going over 255  
Bug: Fixed the horizon speed unit showing blank after kts

Version 1.00 06/07/2017 (Franz Lamers)

-----  
Initial release

=====  
AHRS-3 Firmware Revision  
=====

Version 1.08 25/05/2022 (Franz Lamers)

-----  
Enhancement: Added a vertical card compass display

Version 1.07 09/11/2021 (Franz Lamers)

-----  
Enhancement: Added a pitch and bank zero function to the horizon setup menu

Version 1.06 22/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.05 12/11/2020 (Franz Lamers)

-----  
Enhancement: Added Heading bug user input  
Enhancement: Added SP-7 attitude CAN message emulation  
Enhancement: Added CAN packet filtering  
Bug: Fixed CAN/INT AHRS speed message mph reading km/h  
Bug: Fixed heading bug not showing if below 50 degrees and heading is <=359 degrees

Version 1.04 26/06/2020 (Franz Lamers)

-----  
Enhancement: Updated WMM tables

Version 1.03 18/05/2020 (Franz Lamers)

-----  
Bug: Fixed km/h and knots GPS speed to AHRS aiding

Version 1.02 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added in serial communications  
Enhancement: Added support for a new screen controller  
Enhancement: General clean up

Version 1.01 18/10/2019 (Franz Lamers)

-----  
Bug: Fixed GPS SOG: nm to kts

Version 1.00 27/08/2019 (Franz Lamers)

-----  
Initial release

=====  
ALT-5 Firmware Revision  
=====

Version 1.15 13/05/2024 (Franz Lamers)

-----  
Enhancement: Added relative and deviation altitude mode to the classic display screen

Version 1.14 20/05/2022 (Franz Lamers)

-----  
Enhancement: Added altitude corrected to local pressure and local pressure to the infiniteq comms protocol

Version 1.13 11/04/2022 (Franz Lamers)

-----  
Bug: Fixed items in Altitude calibration menu not highlighting

Version 1.12 05/02/2022 (Franz Lamers)

-----  
Enhancement: Added in an alarm menu option to select between "deviation" and "level"

Version 1.11 10/05/2021 (Franz Lamers)

-----  
Enhancement: Cleaned up mechanical wheels negative altitude scrolling

Version 1.10 02/05/2021 (Franz Lamers)

-----  
Enhancement: Implemented an altitude deviation alarm  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.09 27/08/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new altitude pressure sensor

Version 1.08 01/06/2020 (Franz Lamers)

-----  
Enhancement: Added a temperature compensation function for the altimeter

Version 1.07 18/05/2020 (Franz Lamers)

-----  
Enhancement: Added a factory altitude calibration function  
Bug: Fixed the VSI m/s scale showing the incorrect value

Version 1.06 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new altitude pressure sensor

Enhancement: Added support for a new screen controller  
Enhancement: Added in infiniteq serial protocol  
Enhancement: General clean up

Version 1.05 07/08/2019 (Franz Lamers)

-----  
Enhancement: Simplified the altitude calibration  
Enhancement: Enabled altitude FIFO buffer moving average

Version 1.04 08/06/2019 (Franz Lamers)

-----  
Enhancement: Changed Baro setting to 946/1050mb (28.00/31.00)  
Enhancement: Change Baro IN to "Hg

Version 1.03 11/10/2018 (Franz Lamers)

-----  
Enhancement: Added a piecewise altitude calibration factors

Version 1.02 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup  
Bug: Fixed the MGL Avionics serial output protocol QNH and VSI fields  
Bug: Fixed the saving of the QNH setting during power off

Version 1.01 13/09/2017 (Franz Lamers)

-----  
Bug: Fixed the security code not going over 255  
Enhancement: Changed the altitude bug off screen cyan markers

Version 1.00 15/07/2017 (Franz Lamers)

-----  
Initial release

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#### ASI-4 Firmware Revision

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\*\*\*\*\*Units with firmware version 1.00 cannot use future firmware\*\*\*\*\*  
\*\*\*\*\*Firmware version 1.00 units can be upgraded but the airspeed has to be recalibrated\*\*\*\*\*

Version 1.11 17/07/2021 (Franz Lamers)

-----  
Enhancement: Added in an analog dial display and menu option

Version 1.10 22/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.09 17/11/2020 (Franz Lamers)

-----  
Enhancement: Added support for new pressure sensor

Version 1.08 21/09/2020 (Franz Lamers)

-----

Enhancement: Improved accuracy of airspeed sensor 3 (Set ASI CAL to 100% if ASI sensor is 3)

Version 1.07 27/05/2020 (Franz Lamers)

-----  
Enhancement: Improved accuracy of airspeed sensor 2

Version 1.06 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added in serial communications  
Enhancement: Added support for a new screen controller  
Enhancement: Added a flight log  
Enhancement: General clean up

Version 1.05 02/03/2020 (Franz Lamers)

-----  
Enhancement: Support added for the digital airspeed sensor  
Enhancement: Support added for the digital high speed sensor  
Enhancement: Changed the minimum airspeed to 20mph

Version 1.04 28/05/2018 (Franz Lamers)

-----  
Bug: Fixed the max values yellow VNO

Version 1.03 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup

Version 1.02 18/09/2017 (Franz Lamers)

-----  
Bug: Fixed the security code not going over 255

Version 1.01 06/09/2017 (Franz Lamers)

-----  
Enhancement: Changed the airspeed calibration formula

Version 1.00 15/07/2017 (Franz Lamers)

-----  
Initial release

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ASV-1 Firmware Revision

=====

Version 1.16 08/06/2022 (Franz Lamers)

-----  
Enhancement: Added airspeed and altitude tape with tape selection

Version 1.15 20/05/2022 (Franz Lamers)

-----  
Enhancement: Added altitude corrected to local pressure and local pressure to the infiniteq comms protocol

Version 1.14 22/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight %

readout

Version 1.13 17/11/2020 (Franz Lamers)

-----  
Enhancement: Added support for new airspeed pressure sensor

Version 1.12 12/10/2020 (Franz Lamers)

-----  
Enhancement: Improved accuracy of airspeed sensor 3 (Set ASI CAL to 100% if ASI sensor is 3)

Version 1.11 27/08/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new altitude pressure sensor

Version 1.10 01/06/2020 (Franz Lamers)

-----  
Enhancement: Added a temperature compensation function for the altimeter

Version 1.09 27/05/2020 (Franz Lamers)

-----  
Enhancement: Added a factory altitude calibration function

Enhancement: Improved accuracy of airspeed sensor 2

Version 1.08 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new altitude pressure sensor

Enhancement: Added support for a new screen controller

Enhancement: Added in infinitemq serial protocol

Enhancement: Added a flight log

Enhancement: General clean up

Version 1.07 02/03/2020 (Franz Lamers)

-----  
Enhancement: Support added for the digital airspeed sensor

Enhancement: Support added for the digital high speed sensor

Enhancement: Changed the minimum airspeed to 20mph

Enhancement: Added in infinitemq serial protocol

Version 1.06 07/08/2019 (Franz Lamers)

-----  
Enhancement: Simplified the altitude calibration

Enhancement: Enabled altitude FIFO buffer moving average

Version 1.05 08/06/2019 (Franz Lamers)

-----  
Enhancement: Changed Baro setting to 946/1050mb (28.00/31.00)

Enhancement: Change Baro IN to "Hg

Version 1.04 01/10/2018 (Franz Lamers)

-----  
Enhancement: Added a piecewise altitude calibration factors

Version 1.03 11/06/2018 (Franz Lamers)

-----  
Bug: Fixed the max values yellow VNO

Bug: Moved the m/s VSI text up

Version 1.02 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup  
Bug: Fixed the MGL Avionics serial output protocol QNH and VSI fields  
Bug: Fixed the saving of the QNH setting during power off

Version 1.01 18/09/2017 (Franz Lamers)  
-----

Bug: Fixed the security code not going over 255

Version 1.00 15/07/2017 (Franz Lamers)  
-----

Initial release

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### EMS-1 Firmware Revision

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Version 1.22 22/02/2023 (Franz Lamers)  
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\*\*\* Must load default settings \*\*\*

Enhancement: Added a Generic Analog input option with a programmable label, unit and decimal point

Enhancement: Improved the accuracy of the pressure and temperature sensors when using the internal electronics

Enhancement: Added extra warning message for UL Power turbo engines

Version 1.21 15/11/2022 (Franz Lamers)  
-----

-Improved the accuracy of the pressure and temperature sensors when using the RDAC

Version 1.20 20/09/2022 (Franz Lamers)  
-----

Bug: Fixed fuel level going to zero when entering calculated fuel level for the first time and not adjusting the value and just pressing "DONE"

Version 1.19 16/08/2022 (Franz Lamers)  
-----

Enhancement: Made the calculated fuel tank work from the UL Power fuel flow

Bug: Fixed the Gallons conversion when using the Rotax 912is fuel flow with direct connection

Enhancement: Shuffled the calculated fuel tank menu items around

Bug: Fixed the fuel tank not having the multiplier in the calculated fuel tank menu when using gallons

Bug: Cleaned up calc fuel level analog bar scrolling (manual & auto)

Version 1.18 22/06/2022 (Franz Lamers)  
-----

Enhancement: Added a calculated fuel tank

Version 1.17 18/11/2021 (Franz Lamers)  
-----

Enhancement: Added in a direct connection option to the Rotax 912iS ECU

Enhancement: Menu changes for the Rotax 912iS and UL Power

Version 1.16 02/09/2021 (Franz Lamers)  
-----

Enhancement: Changed the hobbs minutes in the communication output to normal minutes

Version 1.15 15/07/2021 (Franz Lamers)

-----  
Bug: Fixed EGT/CHT display when using ULPower AUX box

Version 1.14 12/04/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.13 22/04/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Bug: Fixed Rotax 912is Throttle position, ambient pressure, ECU hours, Engine hours

Version 1.12 26/03/2021 (Franz Lamers)

-----  
Enhancement: Made an automatic/manual menu item selection for the displaying of the analog channels/Volts/Map/Current section

Enhancement: Cleaned up the volts on/off, numeric and bargraph displays

Version 1.11 04/03/2021 (Franz Lamers)

-----  
Bug: Fixed CJC showing degree F in the calibration menu

Version 1.10 04/10/2020 (Franz Lamers)

-----  
Enhancement: Added selection for decimal or normal hours to Hobbs Meter

Version 1.09 26/08/2020 (Franz Lamers)

-----  
Enhancement: Enabled Rotax 912is engine and warning messages

Enhancement: Enabled Rotax 912is throttle bar graph

Bug: Fixed UL Power Fuel Pressure alarm

Bug: Fixed UL Power Oil/Fuel Pressure bar to psi resolution

Version 1.08 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new screen controller

Enhancement: Added Hobbs/Maintenance start selection

Enhancement: General clean up

Version 1.07 15/02/2020 (Franz Lamers)

-----  
Enhancement: Added UMA senders N1EU70, T1EU70, N1EU70A, T1EU70A, N1EU150, T1EU150

Version 1.06 30/01/2020 (Franz Lamers)

-----  
Bug: Fixed the fuel pressure voltage UMA N1EU07/T1EU07 Bar unit

Enhancement: Added the UL Power Sync sensor fault message

Enhancement: Added support for the UL Power Aux box

Enhancement: Changed UL Power ignition status version 0 to latest version doc

Enhancement: Changed UL Power MAP Pressure version 0 to latest version doc

Enhancement: The current ADC values show when menu selection is over the zero and gain menu options

Enhancement: Changed default current gain from 140 to 315



Version 1.05 20/11/2019 (Franz Lamers)

- 
- Enhancement: Added in a fuel level channel to the analog channels
- Enhancement: Added in flight start selection between RPM1/RPM2 (Start for Hobbs/maintenance timer)
- Enhancement: Serial out analog pressure unit is set to 0.1psi
- Enhancement: Added fuel flow
- Enhancement: Support added for the Rotax 912iS CAN unit
- Enhancement: Support added for the UL Power engine using the RS232 protocol

Version 1.04 25/09/2019 (Franz Lamers)

- 
- Bug: Fixed the minimum volts causing a max values CRC error

Version 1.03 05/08/2019 (Franz Lamers)

- 
- Bug: Fixed CH3 and CH4 ADC values not displaying when NTC is selected for TC Channels

Version 1.02 08/07/2019 (Franz Lamers)

- 
- Bug: Fixed RDAC current calibration resolution when under 10A
- Bug: Made Analog Channels 3 and 4 = off when NTC is selected for CHT Channels
- Enhancement: Increased MAP Cal band to 75
- Bug: Fixed leap year time issue

Version 1.01 19/11/2018 (Franz Lamers)

- 
- Bug: Fixed the ADC Value display in the USER menus
- Enhancement: Removed the vertical silver line if only CHTs are selected
- Enhancement: Moved the temperature unit if only CHTs or EGTS are selected

Version 1.00 20/01/2018 (Franz Lamers)

-----  
Initial release

=====  
FF-4 Firmware Revision  
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Version 1.11 17/05/2021 (Franz Lamers)

- 
- Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.10 28/05/2020 (Franz Lamers)

- 
- Bug: Fixed manual speed entry if Tank1 and Tank2 set to sender
- Bug: Fixed initial loading of fuel tank level when manually entering a fuel level

Version 1.09 20/04/2020 (Franz Lamers)

- 
- Enhancement: Added in serial communications
- Enhancement: Added support for a new screen controller
- Enhancement: General clean up

Version 1.08 30/01/2020 (Franz Lamers)

-----  
Bug: Fixed the fuel pressure voltage UMA N1EU07/T1EU07 Bar unit

Version 1.07 29/06/2018 (Franz Lamers)

-----  
Enhancement: Fuel tank bargraphs fit better when showing single flow, dual tanks  
Enhancement: Added X1000 to K-Factors  
Bug: Fixed 0.1L calculated tank fuel deduction

Version 1.06 08/05/2018 (Franz Lamers)

-----  
Bug: Fixed the fuel pressure user calibration ADC value not showing when using the internal ADC  
Enhancement: Added a 0.5-4.5V fuel pressure sender type

Version 1.05 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup  
Enhancement: Added display fuel pressure only mode

Version 1.04 20/02/2018 (Franz Lamers)

-----  
Bug: Fixed single level display not showing fuel level correctly

Version 1.03 20/10/2017 (Franz Lamers)

-----  
Enhancement: Enabled the dual fuel flow, dual calculated tanks mode  
Bug: Fixed up the display for the single fuel flow, dual tanks mode

Version 1.02 27/09/2017 (Franz Lamers)

-----  
Bug: Fixed the low caution multiplier under tank setup  
Bug: Removed the multiplier text for low alarm

Version 1.01 18/09/2017 (Franz Lamers)

-----  
Bug: Fixed the security code not going over 255

Version 1.00 05/07/2017 (Franz Lamers)

-----  
Initial release

=====  
INFO-1 Firmware Revision  
=====

Version 1.17 16/08/2022 (Franz Lamers)

-----  
Enhancement: Added a 30 second delay (debounce) to the flight timer digital input to recognise start/stop of flights

Version 1.16 10/08/2022 (Franz Lamers)

-----  
Enhancement: Improved the rotating/selection of the main display screen

Version 1.15 27/03/2022 (Franz Lamers)

-----  
Bug: Extended the G-force dial 10G/-8G low alarm to -8G

Version 1.14 29/09/2021 (Franz Lamers)

-----  
Enhancement: Changed the G-force setup menu text  
Enhancement: Improved the G-force calibration method

Version 1.13 12/04/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.12 19/10/2020 (Franz Lamers)

-----  
Enhancement: Increased filter for slip indicator  
Enhancement: Increased filter for volts  
Enhancement: Increased filter for temperature  
Enhancement: Increased filter for current  
Enhancement: Removed split seconds on stop watch

Version 1.11 26/06/2020 (Franz Lamers)

-----  
Enhancement: Updated WMM tables

Version 1.10 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new screen controller  
Enhancement: General clean up

Version 1.09 07/03/2020 (Franz Lamers)

-----  
Enhancement: Added +9G/-6G & +10G/-8G G-Force scale  
Enhancement: Added colored alarm and caution boxes around G-Force and G-Force max min values  
Enhancement: Added caution and alarm colored ticks to the G-Meter display  
Enhancement: Changed High and Low alarm on/off to Caution/High

Version 1.08 29/01/2020 (Franz Lamers)

-----  
Bug: Fixed the current gain readout in the current menu when <10A  
Enhancement: The current ADC values show when menu selection is over the zero and gain menu options  
Enhancement: Changed default current gain from 140 to 315

Version 1.07 18/10/2019 (Franz Lamers)

-----  
Bug: Fixed GPS SOG: nm to kts

Version 1.06 26/09/2019 (Franz Lamers)

-----  
Enhancement: Added GPS display on/off menu item

Version 1.05 18/09/2019 (Franz Lamers)

-----  
Enhancement: Added GPS info displays and menus  
Bug: Fixed the minimum volts causing a max values CRC error

Enhancement: Added a dual G-Force meter scale (+5G/-3G and +10G/-6G)  
Enhancement: Automatically syncs time from GPS when a valid fix has been achieved

Version 1.04 11/09/2019 (Franz Lamers)

-----  
Bug: Fixed the lightning charge bolt graphic to turn on >0A and not at 1A

Version 1.03 23/08/2019 (Franz Lamers)

-----  
Enhancement: Added a new G-Meter display plus new G-force menu items  
Enhancement: Added communications and related menu items

Version 1.02 09/05/2019 (Franz Lamers)

-----  
Bug: Fixed the slip indicator ball showing the incorrect direction

Version 1.01 11/02/2019 (Franz Lamers)

-----  
Bug: Fixed leap year time issue

Version 1.00 21/05/2018 (Franz Lamers)

-----  
Initial release

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#### LASER-1 Firmware Revision

=====

Version 1.04 24/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.03 26/06/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new screen controller

Version 1.02 14/01/2019 (Franz Lamers)

-----  
Enhancement: Added support for the 10 byte communication format

Version 1.01 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup

Version 1.00 05/07/2017 (Franz Lamers)

-----  
Initial release

=====

#### MAP-3 Firmware Revision

=====

Version 1.05 02/09/2021 (Franz Lamers)

-----  
Enhancement: Changed the hobbs minutes in the communication output to normal minutes

Version 1.04 18/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.03 04/10/2020 (Franz Lamers)

-----  
Enhancement: Added selection for decimal or normal hours to Hobbs Meter

Version 1.02 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added in serial communications  
Enhancement: Added a flight log  
Enhancement: Added Hobbs/Maintenance start selection  
Enhancement: Added support for a new screen controller  
Enhancement: General clean up

Version 1.01 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup  
Enhancement: Added a programmable label to the TEMP setup  
\*\*\*Load default settings if upgrading from an earlier version\*\*\*

Version 1.00 10/08/2017 (Franz Lamers)

-----  
Initial release

=====  
RPM-1 Firmware Revision  
=====

Version 1.12 23/05/2022 (Franz Lamers)

-----  
Enhancement: Changed the pulses/rev to 2 decimal places

Version 1.11 02/09/2021 (Franz Lamers)

-----  
Enhancement: Changed the hobbs minutes in the communication output to normal minutes

Version 1.10 18/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.09 04/10/2020 (Franz Lamers)

-----  
Enhancement: Added selection for decimal or normal hours to Hobbs Meter

Version 1.08 20/04/2020 (Franz Lamers)

-----

Enhancement: Added in serial communications  
Enhancement: Added a flight log  
Enhancement: Added Hobbs/Maintenance start selection  
Enhancement: Added support for a new screen controller  
Enhancement: General clean up

Version 1.07 26/02/2019 (Franz Lamers)

-----  
Enhancement: Added in 2 Engine/Rotor display screens  
Enhancement: Added in Engine/Rotor left/right selection  
Enhancement: Added in flight start selection between RPM1/RPM2, Engine/Rotor (Start for Hobbs/maintenance timer)

Version 1.06 09/09/2018 (Franz Lamers)

-----  
Enhancement: Improved the Rotor/RPM screen

Version 1.05 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup

Version 1.04 18/09/2017 (Franz Lamers)

-----  
Bug: Fixed the security code not going over 255

Version 1.03 09/08/2017 (Franz Lamers)

-----  
Bug/Enhancement: Hobbs/Maintenance timer message to show only once if CRC error and init Hobbs/Maintenance to default values  
Enhancement: Defaulted maintenance timer to 10 Hours

Version 1.02 03/08/2017 (Franz Lamers)

-----  
Bug: Fixed highlighting of the label menu option  
Bug: Fixed the RPM2 display minimum not decrementing

Version 1.01 15/07/2017 (Franz Lamers)

-----  
Bug: Fixed the manual/auto flight detect showing the T/O RPM menu option  
Enhancement: Highlighted the max values according to high alarm/caution etc.

Version 1.00 06/07/2017 (Franz Lamers)

-----  
Initial release

=====  
TC-4 Firmware Revision

=====  
Version 1.12 23/08/2023 (Franz Lamers)

-----  
Bug: Fixed vertical and horizontal style max value display spacing

Version 1.11 10/11/2022 (Franz Lamers)

-----  
Enhancement: Added 12 Channel capability when using the external RDAC

Version 1.10 20/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.09 04/03/2021 (Franz Lamers)

-----  
Bug: Fixed CJC showing degree F in the calibration menu

Version 1.08 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added support for a new screen controller  
Enhancement: General clean up

Version 1.07 12/10/2018 (Franz Lamers)

-----  
Enhancement: Added in serial communications

Version 1.06 19/06/2018 (Franz Lamers)

-----  
Bug: Fixed the max reset if using the vertical/horizontal display mode (Bug introduced in ver 1.05)

Version 1.05 17/05/2018 (Franz Lamers)

-----  
Bug: Fixed max values egt/cht color flashing limits  
Enhancement: Added separate EGT and CHT trend graphs

Version 1.04 13/03/2018 (Franz Lamers)

-----  
Enhancement: Added internal flash check function on startup

Version 1.03 18/09/2017 (Franz Lamers)

-----  
Bug: Fixed the security code not going over 255

Version 1.02 29/08/2017 (Franz Lamers)

-----  
Bug: Removed the additional y character shown when editing the label field

Version 1.01 03/08/2017 (Franz Lamers)

-----  
Bug: Fixed highlighting of the label menu option  
Enhancement: Changed green bar color to lime  
Enhancement: Removed silver border around bars and slider  
Enhancement: Cleaned up some ADC internals

Version 1.00 28/06/2017 (Franz Lamers)

-----  
Initial release

=====

TP-3 Firmware Revision

=====

Version 1.09 04/09/2023 (Franz Lamers)

-----  
Bug: Fixed analog communication type 4 onwards

Version 1.08 05/03/2023 (Franz Lamers)

-----  
\*\*\* Must load default settings \*\*\*

Enhancement: Added in a fuel level channel to the analog channels

Enhancement: Added a Generic Analog input option with a programmable label, unit and decimal point to the analog channels

Version 1.07 17/05/2021 (Franz Lamers)

-----  
Enhancement: Changed backlight increment to 5% and 1% below 10%. Added backlight % readout

Version 1.06 20/04/2020 (Franz Lamers)

-----  
Enhancement: Added in serial communications

Enhancement: Added support for a new screen controller

Enhancement: General clean up

Version 1.05 14/02/2020 (Franz Lamers)

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Enhancement: Added UMA senders N1EU70, T1EU70, N1EU70A, T1EU70A, N1EU150, T1EU150

Version 1.04 03/02/2020 (Franz Lamers)

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Bug: Fixed the pressure voltage UMA N1EU07/T1EU07 Bar unit

Enhancement: The current ADC values show when menu selection is over the zero and gain menu options

Enhancement: Changed default current gain from 100 to 315

Version 1.03 18/09/2019 (Franz Lamers)

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Bug: Fixed the minimum volts causing a max values CRC error

Version 1.02 16/10/2018 (Franz Lamers)

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Bug: Fixed the LM335 cal factor when loading default settings

Version 1.01 03/08/2018 (Franz Lamers)

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Enhancement: Changed the pressure display values to maximum 999

Version 1.00 16/03/2018 (Franz Lamers)

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Initial release