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Date: 24.11.2023
Product: Nesis III, AETOS, Horis PFD, Emsis PFD, Indu ASI, Indu Combo
Subject: Airspeed offset check - dynamic pressure sensor check

Revision History

The following table shows the revision history of this document.

Rev.	Date	Description
A	24.11.2023	Initial release.

Contents

1 Effectivity

All products delivered after 1.1.2023 shall be checked/adjusted for dynamic pressure offset at least twice every year.

2 Purpose & Background

We noticed some offset drift in the indication of dynamic sensors that we use for indicated airspeed measurements. Usually this offset is very stable and does not change much with time. However some of sensors in above mentioned products, which were delivered after start of 2023 are less stable and the offset may change erratically.

Although the offset changes, the sensor gain remains stable. This means that such sensor can still be used if its offset is monitored and corrected occasionally.

3 Compliance

Obligatory. All effected products must be monitored.

4 Instructions

Every product must be checked for the sensor offset at least twice per year and a note about the check shall be made in the aircraft logbook.

Make sure that pito-static system is not covered/blocked and that no wind is present. We recommend doing this in a closed hangar on a calm day.

Short instructions are given next, but please take a look at the appropriate user or installation manual for more details.

4.1 Nesis and Aetos

- Switch to `Options` page.
- Select the `Service` icon and enter password. If you do not know the password, select the `Info` icon and search for the `Service pass`. Number next to it is the password.
- Select the `Offset` icon and then the `Dynamic (airspeed)` option.
- Adjust the correction, so that dynamic pressure will show zero.
- Close all windows.

4.2 Horis

- Press and hold the knob to access the `Quick menu`.
- Select `Settings` from the list.
- Select `Pitostatic Offset`.
- Adjust the Airspeed pressure correction on the right, so that dynamic pressure will show zero.
- Close all windows.

4.3 Emsis

- Switch to the `Emsis Setup` page.
- Select the `Service` item and enter `314` as password.
- Search for the `Set alt & IAS offset` and select it.
- Adjust airspeed pressure so that the `Diff. press.` below will indicate zero.
- Close all windows.

4.4 Indu Airspeed & Indu Combo

In this case either Indu altimeter must be connected to the CAN bus together with the airspeed or a connection with `Blu` dongle shall be established with the help of `Kanja` Android app.

4.4.1 Adjustment Using Knob on Indu Altimeter

Please refer to the Indu Altimeter manual for details. Search for the `Airspeed Adjustment - Auto Zero` Section.

4.4.2 Adjustment With BLU

Please refer to the BLU and Kanja User Manual and search for the section `Offset -- Dynamic Pressure`.

5 Persisting Problem

For the unlikely case of dynamic pressure offset changing a lot over time and where the correction is more than 1.2 hPa (120 Pa), please contact us at `support@kanardia.eu`.

6 Additional Instructions

Weight and Balance: Not affected.

Manual: Not affected

Repetitive Inspections: Not required

Continuing Maintenance: Not required.