



AMS Service Bulletin

AMS-SB-2022-001

AFDAU-T1 Firmware Update Version 1.3

Issue Log

Issue	Date	Change Notes
1	29 May 2022	-



1 Planning Information

1.1 Applicable Products

Table 1: Effective Aircraft/Part Details

Type	Part Number	Serial Number
AFDAU-T1	231-001-00	All

1.2 Reason

New firmware for the AFDAU-T1 is available containing the following changes:

- New event types introduced to meet US market ATU requirements:
 - Tank Pump On/Off detection and event reporting
 - Fill Start detection and event reporting
- Added airborne and low speed requirement for start of fill detection on helicopters.
- Improved noise invulnerability of volume processing, especially for fabric tank/pressure sensor systems.
- Improved AFDAU Config Tool interface:
 - Added event log download capability
 - Added access to onboard storage for log retrieval
 - Added RS232 serial port monitoring
- Fixed Reabe Probe gallons to litres conversion from English to US Gals.
- Fixed tank only systems from report container type as 'Bucket'
- Further improvements to discrete detection
- Fixed various bugs relating to event metadata
- Fixed bug that caused intermittent 0 litre drop reporting.
- Fixed bug that caused intermittent double fill reporting.

1.3 Description

Carrying out this bulletin consists of installing a new version of the AFDAU Config Tool and installing firmware to the AFDAU-T1 unit.

1.4 Approval & Compliance

This service bulletin does not constitute airworthiness approval of any kind. Compliance with this service bulletin is optional but recommended.



2 Material Information

2.1 Equipment, Parts and Consumables

Table 2: Applicable Materials

Description	Version/Revision	Type
AFDAU-T1 Firmware	V1.3	Firmware
AFDAU Config Tool	V1.0	PC Software
AMS-IM-1-001	Rev 9	Installation Manual

3 Accomplishment Instructions

1. Install or update current installation of AFDAU Config Tool to version 1.0 as per section 5.2 of the Installation Manual P/N: AMS-IM-1-001 Rev 9.
2. Carry out the firmware update to the AFDAU-T1 as per section 5.3 of the Installation Manual P/N: AMS-IM-1-001 Rev 9.
3. **For new installations**, carry out the configuration of the AFDAU-T1 as per section 5.4 of the Installation Manual P/N: AMS-IM-1-001 Rev 9.
4. **For existing installations**,
 - a. Read the configuration from the AFDAU-T1 using the AFDAU Config Tool.
 - b. Ensure Asset Type and all other configurations are correct for the interfaced sensors, section 3 of the Installation Manual P/N: AMS-IM-1-001 Rev 9 refers.
 - c. Write the configuration to the AFDAU-T1, section 5.4 of the Installation Manual P/N: AMS-IM-1-001 Rev 9 refers.
 - d. Carry out final functional check of the AFDAU-T1 system as per section 4.5.4 of the Installation Manual P/N: AMS-IM-1-001 Rev 9 refers.