

AFDAU-T1

Technical Specifications



AFDAU-T1 Technical Specifications

Introduction	2
Hardware Specifications	3
Electrical Specifications	4
Configuration Overview	5
Prerequisite Checklist	6

Introduction

The AFDAU-T1 unit interfaces with and monitors onboard sensors to produce compliant event messages. Featuring high-performance data processing to produce accurate and reliable event messages, the AFDAU-T1 ensures your aircraft is compliant with NAFC contractual requirements.

Using only digital BUS inputs for receiving volume sensor data, the AFDAU-T1 does not require any test flight or simulated loads for calibration and setup*.

Installation and configuration of the AFDAU-T1 is straightforward with a PC connected via USB port.

An installation manual is delivered with the unit.

* Volume sensors must be installed and calibrated correctly in accordance with sensor manufacturer's data.

2. Hardware Specifications

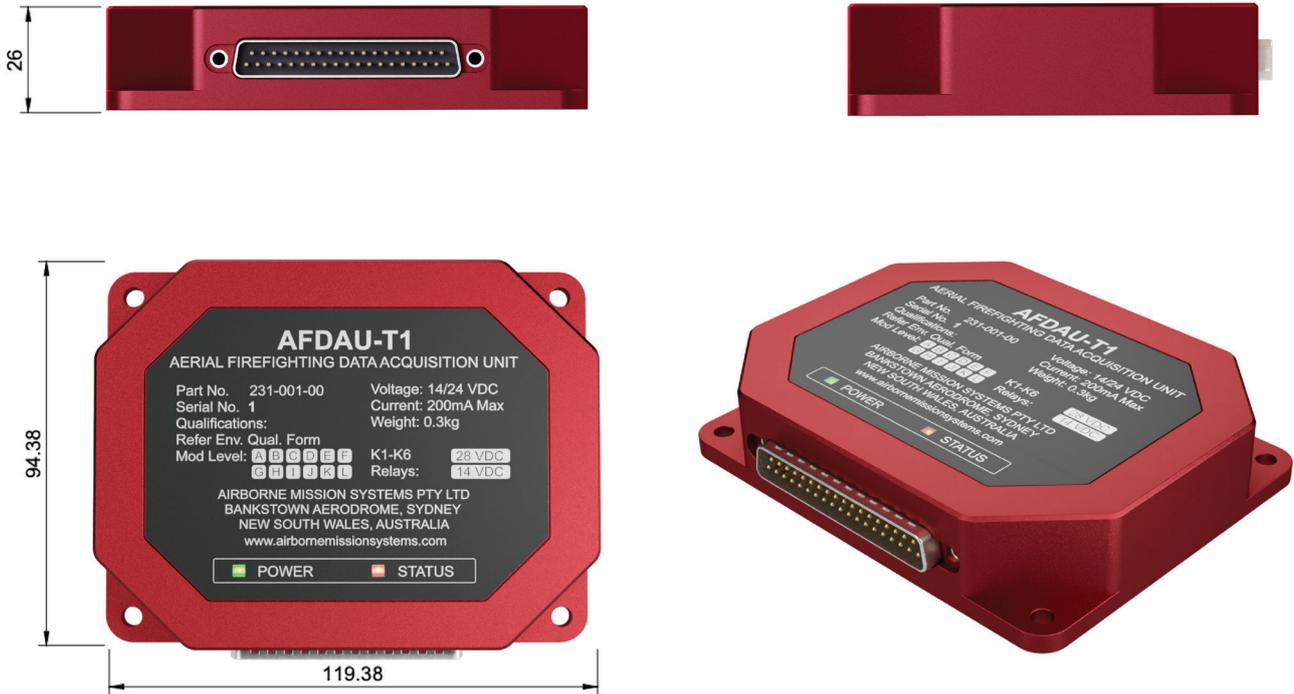


Diagram 1: AFDAU-T1 diagram, measures are in mm

This proprietary and intellectual information is the property of Airborne Missions Systems PTY LTD.

- Weight: 0.2kg / .441 lb
- Dimensions: 98 mm x 120 mm x 27 mm / 3.9" x 4.72" x 1.06"
- Environmental: TBA (Expect DO-160)
- Connector: 37 Pin D-SUB (Male Pins)
- Programming Port: USB Mini-B

3. Electrical specifications

- Input Voltage: 14-28V DC
- Current Draw: 200mA
- RS232 Ports: 4 (Tx & Rx)
- Input Pins: 6 (Open / Ground)
- Internal Input Relays: 6 (Ground or Power Switching)
- Extern Relay Drive Pins: 2 (Open / Ground)
- C39 Data Port: 1
- CAN Bus Port: 1

4. Configuration Overview

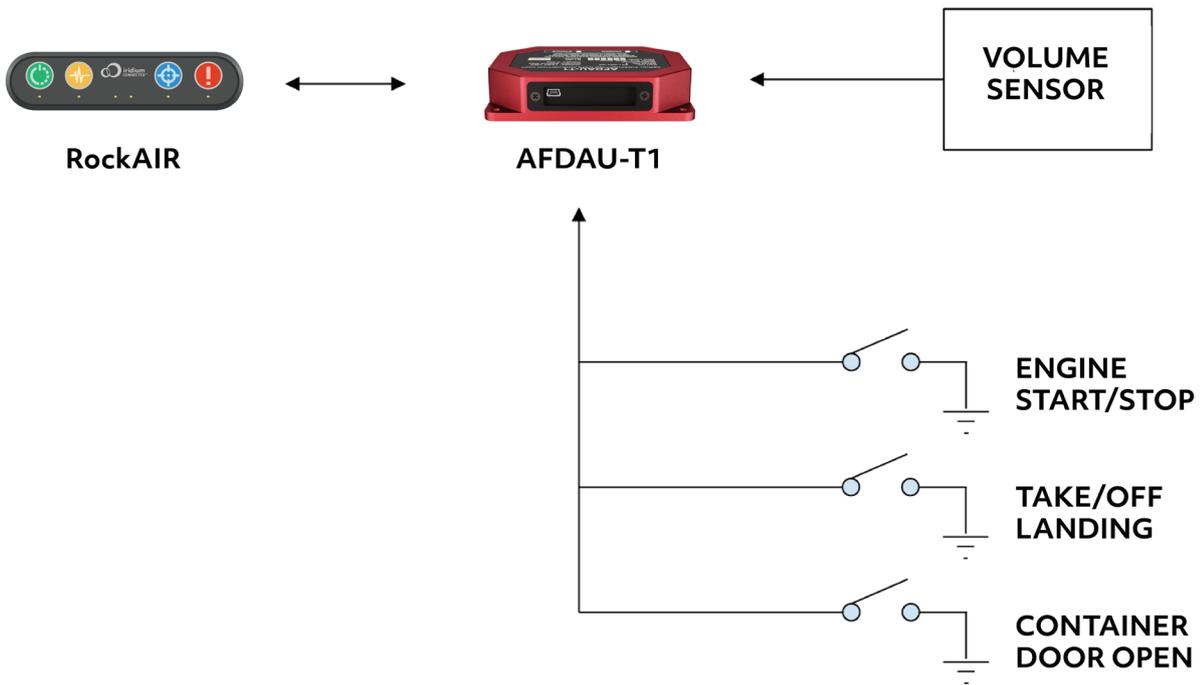


Diagram 2: Configuration overview of the interface between RockAIR, AFDAU and aircraft

5. Prerequisite Checklist

The following checklist is describing equipment and calibrations needed to complete on the aircraft in order to ensure the best accuracy level for AFDAU-T1.

Fixed Wing	Helicopter
<p>Tracking Device</p> <p><input type="checkbox"/> Aircraft is/will be fitted with a TracPlus RockAIR.</p>	<p>Tracking Device</p> <p><input type="checkbox"/> Aircraft is/will be fitted with a TracPlus RockAIR.</p>
<p>Volume Sensors</p> <p><input type="checkbox"/> Aircraft is/will be fitted with Reabe Hopper True Quantity Probe.</p>	<p>Volume Sensors</p> <p><input type="checkbox"/> Aircraft is/will be fitted with Onboard Systems Load Cell with C39 Indicator; OR <input type="checkbox"/> MSI Load Cell with MSI-150XM or MSI-1 Indicators.</p>
<p>Volume Sensors Calibration</p> <p><input type="checkbox"/> Volume sensor is calibrated to accurately display volumes for your aircraft per volume sensor manufacturer's instructions.</p>	<p>Volume Sensors Calibration</p> <p><input type="checkbox"/> Volume sensor is calibrated to accurately display volumes for your aircraft per volume sensor manufacturer's instructions.</p>
<p>Bus Voltage</p> <p><input type="checkbox"/> Aircraft main bus voltage is 14V or 28V DC.</p>	<p>Bus Voltage</p> <p><input type="checkbox"/> Aircraft main bus voltage is 14V or 28V DC.</p>



PUBLISHED 17 SEPTEMBER, 2020

New Zealand

+64 0800 872 275
support@tracplus.com

Australia

+61 1800 330 740 (Aus)
support@tracplus.com

USA / Canada

+1 888 630 9404
support@tracplus.com

Latin America

+56 2 29797733
support@tracplus.com