Flight Data Acquisition & Interface Unit

**Inputs**
- Synchro
- Discrete
- DC
- TAT
- Pneumatics
- Real Time Clock (Internal)
- ARINC 429 (optional)
- ARINC 717 (optional)
- CVR (optional)

**Outputs**
- ARINC 717
- CVR Audio

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**REPLACE OBSOLETE ARINC 542A FLIGHT DATA RECORDERS.**

The Flight Data Acquisition & Interface Unit (FDIU) provides an economical and simple solution to replace obsolete ARINC 542A Flight Data Recorders. The FDIU converts the existing analog inputs and generates an ARINC 717 signal for recording onto a new generation FDR or CVDR. It provides a direct form, fit and function replacement without aircraft modification.

www.flightdata.com.au  Australia  UK  USA
THE FDAIU REPLACES THE FOLLOWING FLIGHT DATA RECORDERS

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>L-3 (Fairchild)</td>
<td>F800</td>
<td>17M30X, 60X, 70X, 80X, 90X</td>
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<tr>
<td>Honeywell Sundstrand</td>
<td>F1000</td>
<td>S603, S703, S800, S903 Series</td>
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<td>UFDR</td>
<td>980-4100-XXXX Series</td>
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<td>UFDR/DFDR</td>
<td>980-4120-XXXX Series</td>
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Obsolete system - F1000 in a rack. When replaced with the FDAIU there is a total weight saving of up to 12 lbs.

FEATURES AND BENEFITS

- Interfaces analog ARINC 542A FDR installations with new generation ARINC 717 FDR or CVDR mounted within the same physical envelope as the original FDR.
- Optional ARINC 429 inputs (8 channels) to increase aircraft parameters recorded on the new FDR.
- Optional audio inputs for use with a CVDR.
- Supports pitot static pneumatic inputs for altitude and airspeed.
- Internally generated real time clock able to provide GMT reference.
- Total weight saving of up to 12 lbs (including the recorder)

Physical characteristics

| Height   | 7.62 inches (193 mm) |
| Width    | 4.88 inches (124 mm) |
| Depth    | 19.56 inches (497 mm) |
| Weight   | 18 lbs max (8 kg) - total weight including FDR |
| Power    | 115 VAC or 28 VDC    |

Standards

- **RTCA DO-160G** Environmental conditions and test procedures for airborne equipment.
- **RTCA DO-254 Level D** Design assurance guidance for airborne electronic hardware.

Compatibility

The FDAIU is compatible with ARINC 757 recorders. Adaptor trays are also available for other recorders.