

DATA ACQUISITION UNIT FOR CVFDR SYSTEMS



INTRODUCTION

- The DAU Developed by CTech is a Data Acquisition Unit for CVFDR System.
- DAU is an additional unit for CVFDR System which collects Analog/Discrete inputs from A/C and forwards them to CVFDR for recording.
- It has 48 Analog/Digital Configurable Inputs. They are configurable as Single Ended/Differential or Digital.
- All inputs can be configured through the CVFDR using the Software Tool.
- The DAU includes an internal Ethernet switch, which is driven by the CVFDR's Ethernet interface.
- It is powered directly by the CVFDR, eliminating the need for an external A/C power source.
- It has serial RS-485 Interface for CVFDR communication.
- The DAU Does Not Require Any Cooling Fan or Conditioned Environment for Cooling Thanks to Its Convectional Cooling Feature. This Makes It Integrable Into All Types of Aircraft (Fixed Wing or Rotary Wing).

General Features	Interfaces	Environmental Conditions
• Data Acquisition Function that is configurable up to 16 Hz frequency for all input types. • Suitable for CTech CVFDR Systems but can be upgraded for all Data Acquisition needs.	• 12V Power Input (Supplied from CVFDR) • Configurable 48 Analog/Discrete Inputs • RS-485 Communication Interface (for CVFDR) • 3 x 10/100 ETH Interface (2 on military connector and 1 RJ45 on the enclosure for switch usage) • 1 x Status Output Discrete	• Operating Temperature: -40°C / +70°C • Storage Temperature: -55°C / +71°C • Altitude: 45000 ft
Technical Specifications	Physical Characteristics	Qualifications
• Power Input: 12 VDC (Nominal) • Power Consumption: 3W (Maximum) • Discrete Input Operating: 0-32 VDC • Analog Input Operating: ±10V	• Dimensions (HxWxD): 62 mm x 122 mm x 172 mm • Weight: < 1 kg	• MIL-STD-810G • MIL-STD-461G • DO-160G (Qualified with CTech CVFDR System Environmental Conditions.)