

**BendixKing**

# AeroCorder 100

Flight Data Recorder



AeroCorder 100 Flight Data Recorder (FDR) was designed by combining the standard features of existing FDRs with a new approach to capturing and protecting flight data, creating the foremost FDR of the future. Using a patent-pending innovative memory insulation technique, AeroCorder 100 offers small size, lower weight, and less power consumption than traditional FDRs in a modular and flexible architecture. These features combine to make it the lightest and lowest volume TSO'd FDR on the market. The "software free" recorder allows for aircraft specific configurations as well as the addition of creative and useful expansion capabilities. AeroCorder 100 can also be flange mounted in any orientation when space is at a premium.

Manufactured with titanium, AeroCorder 100 meets or exceeds all requirements of ED-112A and TSO C124c as well as qualification to DO-160G environmental and power requirements. The rugged enclosure is ideal for airborne operational environments including commercial and military, fixed-wing and rotary aircraft.

AeroCorder 100 FDR includes an ARINC 717 interface for data collection in today's digital cockpits.

To expand AeroCorder's 100 capabilities, an data acquisition module is available from Flight Data Systems (FDS). The Modular Acquisition Unit (MAU) converts AeroCorder 100 into a Data Acquisition and Crash Recorder System. By using MAUs you can pull in a variety of inputs into AeroCorder 100, making it the ideal option for Flight Operational Quality Assurance (FOQA) and Safety Management

*AeroCorder 100 comes standard with TSO 121b Underwater Locator Beacon (ULB). AeroCorder 100 provides for two different mounting locations for greater installation flexibility.*

Specification	
Dimensions	3.3 in. H x 4.9 in. D x 6.0 in. W 85mm H x 124mm D x 152.22mm W
Weight	4.5 lb. (2kg) min
Color	FED-STD-595 Aviation Orange with high-reflectivity white stripes
Power	Input Power: Dual-redundant 28 V DC power inputs Consumption: 8 W max (steady state)
Main Connector	MIL-C-38999 Series III 55 pins as primary input connector. 37-pin connector as GSE and additional interface expansion.
Environmental DO-160G	Operating Temperature: -40 °C to 71 °C Non-operating Temperature: -40 °C to 85 °C Humidity: 100% Operational Altitude: 70,000 ft. Operational Shock: 20 g EMI/EMC: DO-160G Cooling: Passive convection
Crash Survivability	ED-112 Penetration: 500 lb./10 ft./¼-in. probe Static Crush: 5,000 lb. Fire Protection: 50,000 BTU/sq. ft./hr. for 60 min. @ 1,100 °C; 10 hrs. @ 260 °C Impact Shock: 3,400 g, 6.5 ms, half-sine shock wave Immersion: Seawater @ 20,000 ft. for 30 days; aircraft and fire extinguishing fluids for 48 hours
Underwater Acoustic Beacon	90-day beacon, TSO-C121b; six-year battery and bracket supplied with the unit
Aircraft Interface Options	ARINC 717: 64 to 1,024 wps Ethernet: 10/100 Base-T with UDP/IP

*The MAUs offer expanded data collection from the following inputs:*

- Expanded Data Acquisition with ARINC 717 and 429 output
- MIL-STD-1553 inputs
- Analog/Discrete inputs
- Pneumatic (Pitot-Static)
- Quick Access Recorder (QAR)
- GPS Splitter & Receiver Unit  
Emergency Locator Transmitter
- Wireless Data Transfer

### Find Out More

To learn more, call 1.855.250.7027, contact your local BendixKing dealer or visit [bendixking.com/en/sales-team](http://bendixking.com/en/sales-team)

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