

Airborne Telemetry

RMU1000 Remote Multiplexer Unit Airborne Data Acquisition Products



FEATURES

- Vista TEC software package for convenient, menu driven, set up and control of the complete MicroDAS including the Ground Station
- Standalone, or Master/slave Operation
- MicroDAS can support up to 31 RMU slaves for each master
- Programmable Balance for Signal Conditioning Modules: Each channel can be programmed to have one of the automatic modes (amplifier offset, transducer offset, or transducer balance) or the Manual Balance Mode
- 16 user configured slots available
- Signal Conditioning and/or Bus Monitor operation
- Simultaneous sample/hold circuitry for system snapshot
- Four programmable calibration modes



communications
Telemetry & RF Products

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Features (Continued)

- Programmable Output Codes: NRZ-L Biphase-L RNRZ-11, NRZ-S Biphase-S RNRZ-15, NRZ-M Biphase-M
- Programmable Parity (even, odd, off) and CRC
- Programmable bit rate up to 5 Mbps
- Automatic pre-mod 6 pole filter tracks the bit rate, output code and amplitude programmable
- Programmable bits per word: 8 to 16 inclusive
- Programmable words/frame: maximum to 32K words format capacity (Consult factory for multiple format applications)
- Power consumption: 15 Watts @ 28 Vdc
- Internal Microprocessor Control for fast format programming and downloading
- EEPROM for program storage
- Internal Power watch dog
- Internal and external clock features
- Single point system programming
- User programmable sync words
- Nominal system accuracy of 0.5% is standard. Consult factory for other requirements
- 3 PCM outputs available, each is output code programmable

DESCRIPTION

The RMU1000-001 is a fully programmable Data Acquisition and signal conditioning unit that is the basic building block of the MicroDAS. It will accept both signal conditioning modules and various bus monitor modules in any combination. The RMU provides programmable PCM data rates of up to 5Mbps. There are three outputs available simultaneously, one which can be used for tape recording applications and the second output provides an automatic pre-mod filter for RF transmission applications. The entire family of modules are fully supported by the Vista TEC software package.

SPECIFICATIONS

Mechanical Specifications:

Size: Per outline drawing shown below:
5.500"(W) x 3.750"(H) x 9.00"(L)
Weight: 7 pounds (without signal conditioning modules)
Power: 15W @ 28V

Environmental Specifications:

Temperature:
Continuous Operation: -30°C to +70°C
Non-operating: -50°C to +85°C
No external forced air or heat sink required

Humidity: Continuous operation: 5% to 95% with surface condensation

Altitude: Continuous operation: unlimited

Sand/Dust: Environmentally sealed (Non-hermetic)

Atmosphere: Per MIL-STD-810C

Acoustic Noise: Operational at sustained 146 db level
22 to 11,300 Hz per MIL-STD-810B

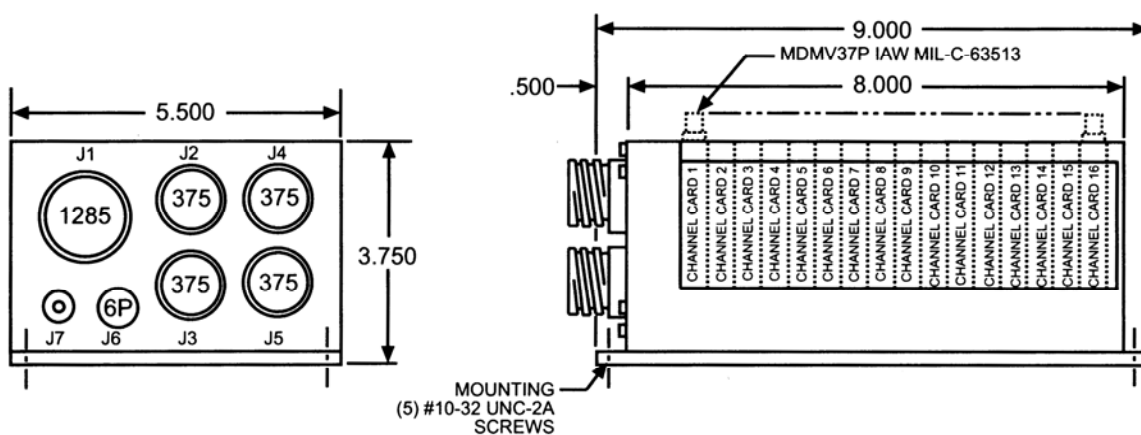
Vibration: Operational 3 axes, 0.04 G2/Hz, 15 to 2,000 Hz per MIL-STD-810D

Shock: Half sine, 30 G, 9 mS, 6 axes per MIL-STD-810D

EMI: CE03, CE07, CS01, CS06, RE02, RS02, RS03(1) per MIL-STD-461C

Connectors (Mating Connectors are optional):

J1: Standard Transducer Input/Output	Mate: D38999/26FJ35PN
J2: RMU Data Bus Input	Mate: D38999/26FD35PN
J3: RMU Data Bus Output	Mate: D38999/26FD35PN
J4: RMU Command and Control	Mate: D38999/26FD35PN
J5: Combiner Interface	Mate: D38999/26FD35PN
J6: Power	Mate: D38999/26FA35SN
J7: Data Output, Filtered	Mate: Amphenol 31-70008



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