

Dynetics Modular Instrumentation System

20-Channel Analog / Digital Input Module

The Modular Instrumentation System (MIS) family of products includes a data recorder module for non-telemetry applications. The MIS data recorder is the ideal solution for applications involving rugged environments and limited space for instrumentation. This product can be configured with any of the MIS modules (IMUs, GPS, Analog, etc.) to form a complete instrumentation system.

The data recorder module interfaces to the MIS bus and stores the collected data into nonvolatile memory. The stored data can be downloaded to a PC using a standard USB 2.0 interface.

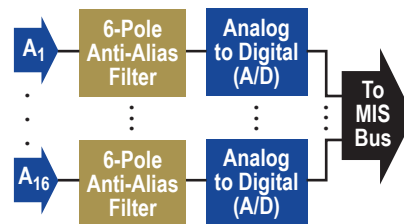
Digital / Discrete Inputs

- ◆ 4 discrete inputs
- ◆ Process individual or data bus signals
- ◆ Internal logic-block processing (latches, AND/OR, etc.)
- ◆ Input levels: max +/- 50 V to min TTL levels



Analog Inputs

- ◆ 16 differential inputs
- ◆ Factory-programmed gain and offset
- ◆ Input levels: max 50 V to min 5 mV
- ◆ Offset: +/- 25 V
- ◆ 6-pole factory-configured anti-alias filter (bessel or butterworth)
- ◆ Input impedance factory-configured (1.0 MΩ nominal)
- ◆ 16 individual A/D converters
- ◆ Simultaneous sampling if desired



Resolution

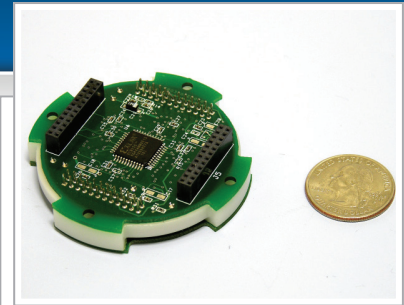
- ◆ 8, 10, 12, 14, 16 bits

Interface

- ◆ Compatible with MIS architecture
- ◆ Inputs: one 37-contact duallobe receptacle (radial) interconnect

Physical

- ◆ Diameter 2.375" min
- ◆ Height 0.33" min
- ◆ Weight 40 g min



20-Channel Analog / Digital Input Module Highlights

Factory-configurable for a variety of digital/discrete and analog inputs to satisfy customer-specified gains and offsets. Specifically designed for MANPADS telemetry applications to include:

- ◆ Monitoring discrete events
- ◆ Processing accelerometer and strain gauge inputs
- ◆ Monitoring single-ended or differential voltages
- ◆ Acquiring data from a digital data bus

This module works in concert with the Dynetics Modular Instrumentation System (MIS) PCM Encoder/Data Recorder and Power Supply Modules to provide a complete data acquisition solution. Multiple MIS input modules can be connected to meet the requirements of applications where large numbers of input signals are necessary.

For More Information:

- ✉: telemetry@dynetics.com
- ☎: 256.713.5060
- 🌐: www.dynetics.com