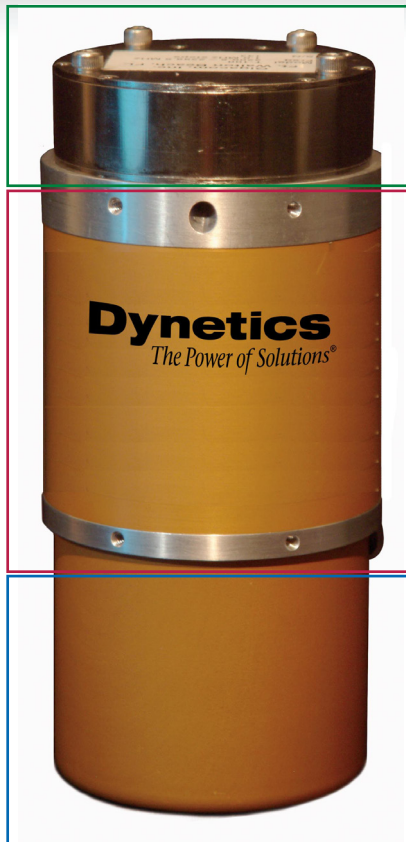


# Dynetics Modular Instrumentation System

Model: MIS 100

Now available on  
GSA Schedule 66



#### Transmitter

- ◆ Tunable 2250.5 to 2299.5 MHz
- ◆ Serial Port Programmable
- ◆ 500-mW Minimum Output
- ◆ Other Options Available

#### Encoder

- ◆ 16-Bit Bus
- ◆ Programmable Frame Structure
- ◆ Bit Rate 10 Mbps+
- ◆ NRZL/RNRZL

#### Premodulation Filter

- ◆ 6-Pole Bessel

#### Signal Conditioning

- ◆ Analog
  - ◆ 32 Differential Inputs
  - ◆ Factory Set Gain
  - ◆ 5-Pole Butterworth Filtering
- ◆ Discrete
  - ◆ 8 TTL Inputs
  - ◆ Logic-Block Processing

#### GPS / IMU TSPI Module

- ◆ High-Dynamic GPS
- ◆ MEMS-based IMU

#### Power Source

- ◆ Rechargeable NiMH
- ◆ 55-minute Operating Time
- ◆ Other Power Options Available

## MIS 100 Highlights

The MIS 100 is a Time, Space, Position Information (TSPI)-capable telemetry unit packaged in a ruggedized 2.5-inch diameter housing capable of withstanding missile launches.

The MIS 100 also includes power supply, signal conditioning, programmable encoder, transmitter, and dual-band conformal antenna.

## Modular Design Specifications

- ◆ Accepts additional MIS input modules
- ◆ Length: 14.1 cm (5.6 in)
- ◆ Diameter: 6.35 cm (2.5 in)
- ◆ Weight: 610 grams (1.36 lbs)
- ◆ Other packaging and mounting options available

## COMPONENT

## DESCRIPTION

Housing	Precision-milled, specialized 2.5 inch by 5.5 inch canister capable of withstanding missile firings and specially designed to house the MIS electronics
Battery	Rechargeable NiMH battery with nominal 1-hour operating life
Transmitter	0.5 to 5.0 W S-band, IRIG 106 compliant transmitter, tunable over the 2.2 to 2.95-GHz range
Antenna	Conformal wrap-around dual-band antenna for simultaneous telemetry and GPS operation
Encoder Module	FPGA-based encoder with programmable frame structure, 6-pole premodulation filter, and 10-Mbit/sec output
GPS Module	High-dynamic (50 g), C/A Code GPS with high update rates (15.525 Hz), 12-channel receiver, and L1 band operation
IMU Module	MEMS-based miniaturized IMU with 3-axis 10 g accelerometers, 3-axis rate sensors up to 300 deg/sec, 3-axis magnetometer, and temperature compensation
Interface Module	40-channel interface module capable of supporting 32 analog and 8 discrete signals

### For More Information:

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