Dynetics Modular Instrumentation System
Model: MIS 100

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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

Now available on GSA Schedule 66

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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