

## **MLS RAMP** TEST SET (RTS)

The model 100A MLS Ramp Test Set is a portable flight line instrument, which provides go/no-go verification of installed Microwave Landing System receivers.

This check is easily performed by transmitting a signal on MLS channel 500, which exercises the Azimuth, Back Azimuth, and Elevation, Left and Right Clearance pulses and Data Word receiving functions of the MLS receiver.

## **Features**

- · Easily tailored to any flight application
- Compatible with TSO-C104 receivers
- Compact construction compliant with MIL-T-28800 Type II, Class 2, Style A
- Built-in RF antenna
- Main operation through a single control
- Small volume (10.3 x 9.9 x 7.9 inches)
- Weight less than 12 lbs
- Up to 3 hours of operation on battery
- · Auto shutdown after 30 minutes of inactivity
- Normal/Hi-Rate AZ operation
- · Battery charging state indication
- Left/Right sunlight readable strobe lights for remote mode indication
- · Water resistant while operating
- Built-in RF attenuator
- Sync and RF calibration outputs
- Detailed operation and Maintenance Manual included
   with each unit

The MLS Ramp Test Set Model 100A is a compact and rugged unit compliant to MIL-T-28800 Type II, Class 2, Style A requirements. Through a single control, the operator selects pre-defined angle configurations, which generate fixed or variable Glideslope and Localizer deviations on the aircraft. The design features extremely small size, simple operation, light weight and up to 3 hours of continuous operation on internal rechargeable batteries.



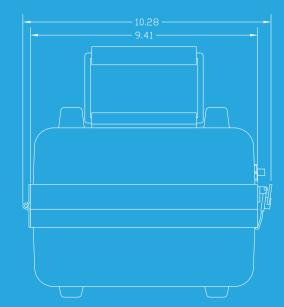
MLS Ramp Test Set Model P/N ADI-20203-001

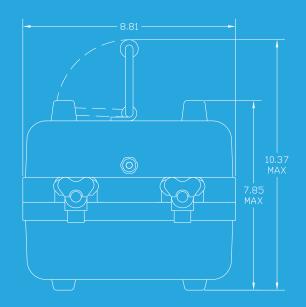
## **GENERAL SPECIFICATIONS\***

RF Frequency	5031.0 MHz ± 10 KHz, MLS channel 500	Operation Modes 	<ul> <li>OFF</li> <li>Self-Test (TST)</li> <li>Needles Left/Up</li> <li>Needles Half Left/Up</li> <li>Needles Centered</li> <li>Half Right Down</li> <li>Needles Right/Down</li> <li>Sweep</li> <li>Normal or High Rate AZ</li> </ul>
RF Level	-69 ± 3 dBW / m² @ 30 feet (0 dB attenuation) (-75 ± 3 dBm in 0 dBi antenna)		
Modulation	AM and DPSK modulation in conformance with FAA 14 CFR part 171		
Beam Level	0 to 6dB above preamble level	Antenna Calibration	Battery Level Indicator Battery Charging Indicator AC Power ON
Beam Width	All angle functions, 1.5 ± 0.50		
Angle Accuracy	± 0.0050		TNC Connector, -13 dB from radiated power
Deflection	0% to 100% FSD		
Slew Rate	± Full scale deflection cycle in 11 seconds in sweep mode	Sync Output	ACMOS compatible, sync on AZ functions
Atten. Ctrl	0-40 dB attenuation (From nominal)	Temp. Range	-40°C to 55°C
		– Power Input	115 VAC 50 to 400 Hz, 15 Watts Max.

Humidity

\*Specifications subject to change without notice. Some details may vary with model number.





0.90% non-condensing

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**Outline Drawing** 

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