

MTS-3060 SmartCan™

UNIVERSAL O-LEVEL AIRCRAFT ARMAMENT TESTER
FOR SMART & LEGACY SYSTEMS

CAGE Code	Part Number	NSN
056D8	3060-020-00	4920-01-603-7105

- ▶ Supports both “smart” and legacy weapons
- ▶ Supports multiple platforms
- ▶ Superior test coverage using Weapons Simulation
- ▶ Support for MIL-STD-1760 “smart” weapons systems
- ▶ Over 30 measurement channels
- ▶ Simultaneous and continuous monitoring of up to 6 Squib firing circuits
- ▶ Audio and Video signal generation
- ▶ Detailed test log can provide parametric test data – can be uploaded to logistics systems
- ▶ Supports standard operating modes of SERD 75060GB



The MTS-3060 SmartCan™ is an advanced flight line tester for suspension and Alternate Mission Equipment (AME) including pylons, launchers, bomb racks, and pods. The MTS-3060 SmartCan™ is a high performance hand-held device with previously unavailable flight-line test capabilities. The State-of-The-Art MTS-3060 SmartCan™ provides measurement, loading and stimuli functions that are typically associated with large O-Level testers such as the SERD-75501. With multiple measurement channels, dedicated and continuous squib circuit monitoring, multiple load channels, audio and video simulation, and MIL-STD-1760 support, the MTS-3060 can support any platform and any “smart” and legacy armament system.



Innovative power management system

Sunlight-readable LCD display and multi-function keys

The SmartCan™ can also be sold in a kit that includes the following parts:

Description	Part Number
Self-test adapter (built into the case)	3060-090-00
Rail Adapter	3100-224-00
Self-test Cable	3060-068-00
USB Cable	3060-261-00



SPECIFICATIONS

General Description

AME and Weapons Systems Supported	16S210, LAU-128, LAU-129, LAU-117, TER-9, SUU-20, MAU-12, MAU-50, BRU-46, BRU-47, AIM-9, AGM-65, JDAM, F-16 Gun, P4
Display and Indicators	Sunlight-readable graphic LCD display with a resolution of 128 x 64 pixels and six different background colors. Individual indicators to support legacy mode operation.
Manual Controls	4 soft function keys, easy and intuitive operation

Measurement Capabilities

High-Voltage Measurement Channels	3 x AC/DC $\pm 400V$, 1% accuracy (differential) 3 x AC/DC $\pm 400V$, 1% accuracy (single-ended)
Low-Voltage Measurement Channels	14 x AC/DC -2V to +50V, 1% accuracy (single-ended)
Squib Measurement Channels	6 channels, switchable 3 Ω load, 1% accuracy, 10KHz max sample rate per channel. Also routed to a continuous threshold detector
E-Load Measurement Channels	6 channels, 4 to 39VDC, 1% accuracy, each channel can load 0-3.5A
Ground Measurement Channels	3 channels with pull-up/pull-down to verify ground signals
Legacy Measurement Channels	4 input pins to support AT, PV, SV, ST, and EED modes of legacy SERD 75060
Resistance Measurement	Built-in current source provides for resistance measurement on all differential channels

Additional Capabilities

1553	MIL-STD-1553 support (as R/T for weapons simulation)
Audio	Two channels with selectable voltage and frequency. One channel can provide a frequency sweep of 100Hz to 10KHz
Video	RS-170 compatible
Discrete Outputs	4 discrete output channels 28VDC/GND/Open
Cable ID	Ability to detect cables and adapters automatically

Physical and Environmental

Size	Length: 8.25" Diameter of body: 3" Front/Rear panel: 3.5" x 3.5"
Weight	SmartCan: 4.2lb SmartCan Kit: (1 SmartCan, adapters, cables, self-test adapter, and case): 35lb
Operating Temperature	-20°C (-4°F) to +57°C (+135°F)
Storage Temperature	-51°C (-60°F) to 71°C (+160°F)
Maximum Relative Humidity Range	95%
Salt Fog	Per MIL-PRF-28800F Class 2
EMI	MIL-STD-461F
Shock	5 ft drop onto concrete
Vibration (Sine)	Per MIL-PRF-28800F Class 1
Loose Cargo	Per MIL-PRF-28800F Class 2
Transit Drop	Per MIL-PRF-28800F Class 2
Explosive Atmosphere	Per MIL-PRF-28800F Class 1
Maximum Altitude	Operating: 15,000 ft Storage: 40,000 ft