



MIL-STD-1553 databus network test kit

The MIL-STD-1553 databus network test kit allows users to detect and isolate wiring faults on aircraft with a databus harness system.

The kit includes a S2476N databus network/harness tester, aircraft-specific interconnect leads to connect the tester to the aircraft of choice, consumable spares for the tester, a databus repair kit, full technical publications and a transit case. Additional options include a calibration kit and an ARINC 429 protocol tester.

The databus network/harness tester isolates all common wiring faults (short circuits, shorts to shield, open circuits and cross-overs etc.) on any platform with a 1553 databus harness system. It measures insertion loss between any two stubs in dBs. It is simple to operate, with no need to disconnect the main bus and comes with an integral battery charger. Lightweight and ruggedised, it is ideal for one-man operation.

The S2476N is also the only tester on the market that can footprint a 1553 databus, allowing users to monitor system integrity and schedule preventative maintenance.

Benefits

- Preventative maintenance using 'bus mapping'
- Reduces 'black box' No Fault Found rates
- Isolates all common wiring faults
- No need to disconnect main bus
- The tester can be used on any MIL-STD-1553 platform
- Removable transmitter for remote testing
- One-man operation
- Lightweight and portable
- Not restricted by ITAR
- CE Marked
- Full training and technical support available



Technical data

Functions measured

- Short circuits between twisted pairs of bus or stub
- Open circuits on bus or stub
- Cross-overs of twisted pairs, on bus or stub
- Short circuits between either of the wires of the bus or stub twisted pair to shield/screen system
- Insertion loss between any two stubs in decibels in the range 0dB to -36dB (+/- 0.1dB)

Qualification

- MIL-STD-810 Environmental
- MIL-STD-461 EMC
- CE marked

Specification

Transmitter

- Delivers insertion loss via 200KHz signal
- Delivers wiring faults via 25KHz signal
- Battery powered: up to 24 hours continuous use
- Self contained, sealed unit

Receiver

- PASS/FAIL indication of wiring fault
- Measures insertion loss between any two stubs in the range 0dB to -36dBs
- Battery powered: up to 24 hours continuous use
- Self contained, sealed unit

Display

- GREEN/RED LED pass/fail indication for open circuits, short circuits, cross-overs and short circuits to the shield/screen system
- LCD gives insertion loss in dBs between any two stubs

Dimensions

- 220 x 220 x 375mm (9 x 9 x 15 inches)

Weight

- 8.5kgs (19lbs)

Temperature range

- -20C to +50C (-4F to 122F)

Accessories

Supplied

- Calibration pad S2476C
- Power charge lead

Optional

- Calibration kit DE2463/A
- Module for direct coupled buses S2476G

Calibration

- Prior to daily use, via supplied 12.0dB calibration pad
- Annually, via optional calibration kit DE2463/A

Charging

- Battery charger operates from 85V to 265V, 40Hz to 400Hz



Part No. S2476N
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