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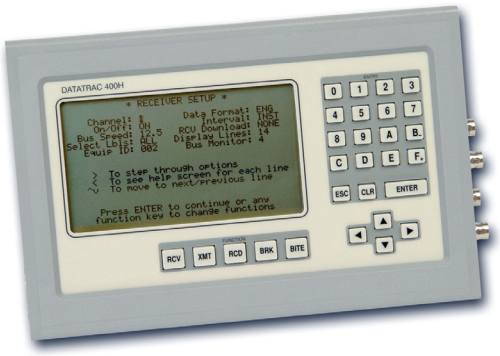
Avionics DT400H ARINC 429 DATABUS Analyzer

AEROFLEX
A passion for performance.



A powerful performer in one small hand-held box

- Lightweight, hand-held unit
- 16-line, backlit display
- User-friendly operation
- Record up to 240 screens for later download to PC/printer
- Many labels displayed simultaneously
- Fully compatible with all other DATATRAC test equipment and PC-based support programs
- Proven reliability!

The DT400H is a hand-held databus analyzer providing powerful capabilities in a lightweight, durable unit you can pack in a briefcase or carry to the flight line.

This miniaturized version of the DT400 provides the same mature, field-proven features including breakpoint troubleshooting mode, 16-label recorder, 128-label transmitter, RS-232C port, D/A conversion, Williamsburg protocol analyzer and much more.

The LCD display is backlit for easy viewing anywhere, and batteries permit over six hours of operation between recharges.

Advantages of the large display screen include:

- Bite Messages - User-friendly operation is only possible when the display screen can show complete setup menus and help screens. The 16-line display easily accommodates the ARINC 604 normal or interactive mode formats. Also, 350-label maintenance information can be read using a pre-stored database for 700 series equipment. Record up to 240 screens for later download to a PC/printer. The BITE mode supports systems on the 737-300, 747-400, MD-11, and A320/330/340.
- Many labels simultaneously displayed - Data from two buses can be displayed in nine formats: hex, binary, ASCII, engineering units, user programmed, etc. Database conforms to 429-15 and includes Boeing labels for AVM, EIS, EICAS, FSEU, and FQIS.

GENERAL SPECIFICATIONS

RECEIVER OPERATION

Ports

2

Bus Frequency

12-14.5 kHz or 100 kHz (selectable)

Input Levels

+ 6.5 VDC to + 13.5 VDC (A to B)

Input Impedance

12.0 Kohms

Word Update

1 ms to 10 sec, update rate displayed as instantaneous, min or max value

Display Format

Engineering units with pre-stored scaling based on equipment IDs, hexadecimal (full or data field); binary (full or data field); user defined; graphic plots; or ASCII character

Maximum Words

256 per SDI per channel

Bus Activity Monitor

Monitors loss of individual words; sensitivity selectable

Real-time Download/Conversion

RS-232C or 12-bit DAC port

TRANSMITTER OPERATION

Ports

Single

Bus Frequency

12.5 kHz or 100 kHz

Output Levels

+ 10.0 VDC (A to B)

Output Impedance

75 ohms

Word Update

1 ms to 10 sec (selectable)

Burst Mode

01 to 99 burst output at selectable rate

Display Format

Engineering units with pre-stored scaling based on equipment IDs, hexadecimal (full or data field); binary (full or data field); user defined; or ASCII character

Maximum Words

128 per channel

Transmit Word Gap

4 bits

Dynamic Transmit

Repeat pattern of ramps and flat segments. Levels programmable between + full scale and segment times or 0 to 999.999 sec

BREAKPOINT OPERATION

Label Sequence

A, B, A or B, A then B, B then A

Data Conditions

EQ, NEQ, OR, GT, LT, /GT/, /LT/

Event Count

1 to 99 before break

History

Up to 24,540 words in a programmable window about the breakpoint; selectable time stamp

Trigger Pulse

5V, 0.02 ms

RECORD OPERATION

Channels

Up to 16 selectable labels

Sample Interval

1 ms to 10 sec (selectable)

Record Capacity

120 Kbytes (e.g., 8.5 hours of single label at 1/sec)

Playback Options

Graphic plots, data lists, DAC, RS-232C Bite Operation

BITE Formats

Compatible with distributed and centralized BITE concept used on 747-400, 737-300, MD-11, A320, A330, and A340 aircraft

Menu Display

Standard 14-line x 24-character menu with selectable menu choices

Simulation

Select NULL, DC1, DC2, or DC4 command outputs to simulate various flight phases

Maintenance Words

Displays 350/351 label maintenance bits. Bit status along with pre-stored text presented

Recording Feature

Save up to 240 BITE screens for later viewing or downloading

Reference

ARINC 429-15; Boeing labels for AVM, EIS, FSEU, EICAS, and FQIS

Power Requirements

110 or 220 VAC, 50-400 Hz AC adapter, internal NiCad battery

PHYSICAL CHARACTERISTICS

Weight

3.5 lbs. (1.6 kg)

Size

6.3" x 9.75" x 2" (16 cm x 24.75 cm x 5 cm)

VERSIONS, OPTIONS AND ACCESSORIES

When ordering please quote the full ordering number information.

Ordering Numbers	Versions
DT400H-00-110	ARINC 429 databus analyzer, 110 V
DT400H-00-220	ARINC 429 databus analyzer, 220 V
DT400H-01-110	ARINC 429 databus analyzer w/ Williamsburg Protocol, 110 V
DT400H-01-220	ARINC 429 databus analyzer w/ Williamsburg Protocol, 220 V

Standard Accessories

Battery charger, carrying case

Optional Accessories

ACPCMGR-400	Software support for DT400/DT400H
ACRS232CBL	DT400/400H/600/650 RS-232 Cable

Extended Warranty

WDTRC/203C	Extended standard warranty 36 months with scheduled calibration
WDTRC/205C	Extended standard warranty 60 months with scheduled calibration