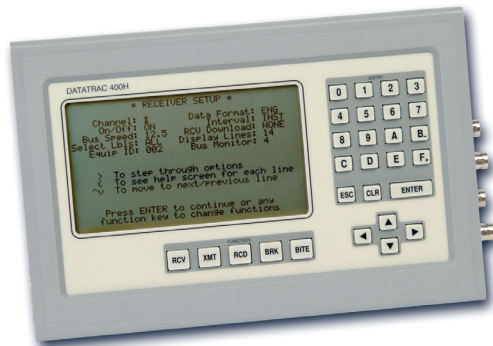


# Avionics

## 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 DATATAC 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

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### RECEIVER OPERATION

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#### 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

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#### 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

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#### 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

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#### 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

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#### Weight

3.5 lbs. (1.6 kg)

#### Size

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

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## ***VERSIONS, OPTIONS AND ACCESSORIES***

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*When ordering please quote the full ordering number information.*

### **Ordering**

| <b>Numbers</b> | <b>Versions</b>  |
|----------------|--|
| 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 |

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