DT400H

ARINC 429 DATABUS ANALYZER

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; graphic plots; or ASCII character

Maximum Words
> 128 per channel

Transmit Word Gap
> 4 bits

Dynamic Transmit
> Repeat patterns 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 prestored 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 Number	Version
992	DT400H-01-110 ARINC 429 databus analyzer w/ Williamsburg Protocol

Standard Accessories

11293	Battery charger 110 V
11294	Battery charger 230 V
60492	Prog Disk RS Read
11987	Carrying case
3573	Operations manual
58225	RS232 cable DT400

Optional Accessories

60493	ACPCMGR-400 Software support for DT400/DT400H

ATG

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