Avionics

DT350H HONEYWELL ASCB ANALYZER

AEROFLEX
A passion for performance.

Supports all versions of Honeywell/GAMA Avionics Standard Communications Bus

The DATATRAC 350H is a portable, battery operated, handheld bus analyzer supporting all versions of the Honeywell/GAMA ASCB Bus.

The DT350H is programmed with the data defined in the ASCB-A, B and C applications specifications, allowing the unit to display receive and transmit data in their scaled units. The scaling database can be reprogrammed with modified or custom data by the user via an RS-232 port and PCMGR-300. This is an optional PC- based program that allows up to 128 setups to be stored in the DT350H's FLASH ROM. In addition, the user may program up to 5 setups into RAM through the front panel keypad. Both types of setup tables support all features of the DT350H (receive, record, break and transmit).

The DT350H has two receive modes, SELECT and ALL. SELECT Mode allows the user to define up to 32 unique words to be captured for each channel. The data can be output to the screen, the RS-232 port, or the built-in 12 bit DAC port. ALL MODE displays all bus address activity on the screen. Two independent receive ports allow connection to primary and/or backup buses to monitor activity simultaneously.

Receive words may be displayed in their predefined scale format from the database or in HEX, Binary, bcd, or a user defined format.

The DT350H has a very powerful breakpoint feature. Receive data can be captured based on up to two breakpoint words which can be programmed to occur independently or in a specific sequence.

The break conditions (=,!=,OR, >,<) can be split between one or both channels with an event count qualifier of up to 99 occurrences before break.

FEATURES

- ASCB-A, B, and C in one unit
- Two receive and one transmit port
- Easy menu-driven setup allows intuitive control of unit
- Reprogrammable scaling database
- Powerful RECORD and BREAKPOINT modes
- Four hours of operation from internal battery or operation from 110-220 VAC
- RS-232C and DAC interfaces

GENERAL SPECIFICATIONS

RECEIVER OPERATION

Ports

2 Independent

Modes

SELECT, ALL

Time Stamp

1 ms resolution

Word Display Format

Binary, HEX, Eng. Units, BCD, User, Graph

Select Word Positions

32

Bus Activity Monitor

Monitors loss of address/word

Real-time Download

RS-232C or 12-bit D/A

TRANSMITTER OPERATION

Ports

1 configurable: version A transmits data and clock on 1 bus only;

Version B transmit data on 1 bus only; Version C transmit data on 1 primary and 1 backup bus

Modes

USER, CONTROLLER compatible transmit mode

Unique Addresses

16

Dynamic Data

10 Words, programmable rise, fall and hold times

Fresh Counter

3 or 4 bit

Software Checksum/CRC

Calculated dynamically

BREAKPOINT OPERATION

Sequence

2: A, B, A or B; A then B

Data Conditions

EQ, NEQ, OR, GT, LT

Trigger Output

5 V, 20 µS via D/A

Time Stamp

10 ms resolution

Record History

Up to 35,000 programmable about the breakpoint, Event Count1 to 99 before break

Review/Playback

Data display, RS-232, Graph, D/A

RECORD OPERATION

Record History

Up to 55,000 data words,   Sample Interval 2 ms to 10 sec

Review/Playback   Data display, RS-232, Graph, D/A

GENERAL

Compatibility

ASCB-A, B, and C USER compatible for receive and transmit, controller compatible transmit mode

Database

Preprogrammed ASCB-A, B, and C applications and specifications and custom upload capable via PCMGR-300

Setup Storage

5 RAM tables, 128 FLASH ROM tables (FLASH tables require PCMGR-300)

PHYSICAL CHARACTERISTICS

Weight

3.8 lbs (1.7 kg)

Height

6.5" (16.5 cm)

Width

9.75" (24.7 cm)

Depth

2.0" (5.0 cm)

Display

Super-twist, back-lit LCD; 16-line x 40 characters, 240 x 128 dot graphics

Power Requirements

110-220 VAC Adapter, internal

NiCad battery (4 hours)

Temperature

0 to -50 degrees C operating;

-10 to 60 degrees C storage

ORDERING INFORMATION

DT350H-110   ASCB Databus Analyzer (110V)

DT350H-220   ASCB Databus Analyzer (220V)

Standard Accessories

Battery charger, carrying case, Operations Manual

Optional Accessories

ACPCMGR-300   Software support for the DT350H

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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AEROFLEX
A passion for performance.

Our passion for performance is defined by three attributes represented by these three icons:
solution-minded, performance-driven and customer-focused.