

# Avionics

## DT200 ARINC 429/CSDB DATABUS ANALYZER



**AEROFLEX**  
A passion for performance.

Powerful capabilities for avionics maintenance

### FEATURES

- CSDB capability for Collins ProLine Avionics
- Light weight, battery operated
- Manages multiple data words
- Clearly displays subfields
- Manipulates data with such features as FREEZE, SCROLL and CLEAR

Consider these additional features:

- Receives and displays data in hexadecimal, binary, or engineering units
- Transmits multiple words at selected rates
- Identifies failures with breakpoint trigger pulse and history features
- Converts digital data to DC
- General purpose recording mode for lab or flight test
- Presents data transients as graphic time plots
- Operates anywhere for up to 6 hours on rechargeable battery
- Easy setup with menu selections

The DATATRAC 200's advanced features will handle all your troubleshooting needs with a unit that conveniently supports two avionics databus standards, ARINC 429 and CSDB (Commercial Standard Digital Bus). Basic receive and transmit capabilities are extensive.

The DT200 has the ability to manage many data words, clearly display subfields, and manipulate data with such features as freeze, scroll and clear. Other features of the DT200 include dual operation in either ARINC 429 or CSDB modes, data display in hexadecimal, binary or engineering units, general purpose recording mode for lab or flight tests, operate up to 4-6 hours on a rechargeable battery.

The DT200's light weight provides for easy usage in either a bench or ramp environment.

## **GENERAL SPECIFICATIONS**

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### **ARINC 429 RECEIVE**

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#### **Bus Frequency**

12.5 or 100 KHz (selectable)

#### **Input Levels**

+ 6.5 VDC to 13.5 VDC (A to B)

#### **Impedance**

12.0 K Ohms

#### **Display Format**

Hexadecimal, binary, or engineering units

#### **Maximum Labels**

255 per SDI value

#### **Breakpoint Conditions**

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

#### **Break History**

85 words per label, 16 labels

#### **Record Intervals**

10 ms to 5 s (selectable)

#### **Record Capacity**

1-3 labels (34 min. for single label at 1/second)

#### **Record Playback**

Graphics plots, hex list, or DC output

### **ARINC 429 TRANSMIT**

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#### **Bus Frequency**

12.5 or 100 KHz (selectable)

#### **Output Levels**

+ 10.0 VDC (A to B)

#### **Output Impedance**

75 Ohms

#### **Display Format**

Hexadecimal

#### **Maximum Labels**

16

#### **D/A Range**

+ 5.0 VDC, 8-bits

#### **D/A Scaling**

100%, 50%, or 12.5% of digital word applied to full output range (full scale offset selection)

#### **Trigger Pulse**

+ 5 VDC, 0.5 ms

#### **Burst Mode**

1-99 burst output at selectable rate

## **CSDB RECEIVE**

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#### **Bus Frequency**

12.5 or 50 KHz (select-able)

#### **Input Levels**

+ 2.0 TO 6.0 VDC (A to B)

#### **Impedance**

8.0 K Ohms

#### **Word Update**

3 ms to 5 sec

#### **Display Format**

Hexadecimal, binary, or engineering units

#### **Maximum Labels**

16

#### **Breakpoint Conditions**

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

#### **Break History**

51 words

#### **Record Intervals**

10 ms to 5 sec. (selectable)

#### **Record Capacity**

2-3 words (20 minutes for 2 words at 1 per second)

#### **Record Playback**

Graphics plots, hex list, or DC output

## **CSDB TRANSMIT**

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#### **Bus Frequency**

12.5 or 50 KHz (selectable)

#### **Output Levels**

+ 3.0 - 5.0 VDC (A to B)

#### **Output Impedance**

100 Ohms

#### **Display Format**

Hexadecimal

#### **Maximum Labels**

16

#### **D/A Range**

+ 5.0 VDC, 8-bits

#### **D/A Scaling**

100%, 50%, or 12.5% of digital word applied to output range (full scale offset selection)

#### **Trigger Pulse**

+ 5 VDC, 0.5 ms

#### **Burst Mode**

1-99 burst output at selectable rate

## **PHYSICAL CHARACTERISTICS**

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### **Weight**

7.5 lbs (3.4 kg)

### **Width**

12.5" (31.75 cm)

### **Height**

5.0" (12.7 cm)

### **Depth**

11.6" (29.46 cm)

### **Power Requirements**

7.0 Watts at 110 VAC/60 Hz 8.4 Watts at 28 VDC or internal battery

### **Display**

1.7" x 6.0" LCD with 8 lines x 40 char. mode or 64 x 256 dot graphics mode. Front panel dimming control.

## **VERSIONS, OPTIONS AND ACCESSORIES**

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*When ordering, please include the Order Number listed below:*

<b>Ordering Numbers</b>	<b>Description</b>
985	DT200-00 ARINC 429/CSDB Databus Analyzer (specify 110 V or 220 V requirement)

### **STANDARD ACCESSORIES**

Battery charger, Operations Manual

### **EXTENDED WARRANTY**

84381	Extended standard warranty 36 months with scheduled calibration
84382	Extended standard warranty 60 months with-scheduled calibration

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