## Aerospace Testing Solutions



Military Wiring

**EMC Compliance** 

Fuel Systems BCF Designs Ltd specialises in the design and supply of Ground Support Equipment for use at operational level. Innovative solutions for testing Aerospace Military Wiring, Fuel Systems, EMC Compliance and Digital avionics are currently available as commercial off the shelf test equipment.

The Portable ARINC 429 Protocol Tester offers the power of a complex protocol analyser with the versatility of a ruggedised portable tester. Designed for use at all levels, in development, production and ground support. The Tester offers the user the ability to transmit, monitor in real-time or record 32-bit ARINC 429 data words.

The DE3300B has a single receiver (Rx) and transmitter (Tx) which operate simultaneously and independently of each

other. The Rx and Tx is each capable of

time tag. The Tx has a 255 word transmitter table with single-shot and repetitive outputs.

The equipment is controlled via four front panel mounted soft-keys. Information is displayed on a 256 x 64 dot graphics display with backlight.

The opto-coupled Rx provides the ability to monitor, search and record data defined by label, SDI, system, and data bit pattern together with an optional trigger. Captured data can be filtered for viewing by step, search and goto functions and displayed in binary, hexadecimal or engineering units.

# Digital Avionics

operating at either 12KHz or 100KHz transmission rates. The Rx has a single label real-time monitor, a three label monitor with one second refresh rate and a 100,000 word acquisition memory. Each of these modes of operation has a 16 bit

# ARINC 429 Protocol Tester

The Tx output can be defined by label, SDI, system, IWG and transmit interval. Data can be entered in binary, hexadecimal or true engineering units.

### **Benefits:**

- 255 word transmitter table
- High or low speed operation
- Label selected in octal
- SDI/SSM/parity specified per word
- Data entered in binary/ hexadecimal/ engineering units
- Transmit interval specified per word in milliseconds
- 100,000 ARINC 429 word acquisition
- Real time monitor of 1 label
- 1 microsecond time tag
- Receiver statusquiet/active

## Aerospace Testing Solutions

### Technical data

## **DE3300B ARINC 429 Protocol Tester**



#### **Tx Functions:**

- 255 word Tx table
- High or low speed operation
- IWG defined 4 thru 255 bit periods
- Label selected in octal
- System selected by equipment ID code
- SDI/SSM/parity specified per word
- Data entered in binary/hexadecimal or engineering units
- Single shot or repetitive modes
- Transmit Interval specified per word in milliseconds

#### **Rx Functions:**

- 100,000 ARINC 429 word acquisition
- Monitor 1 label 1 second update
- Real time monitor 3 Labels
- Search for all active labels
- Automatically sets input frequency
- Receiver status quiet/active
- Data displayed in binary/hexadecimal or engineering units
- Label/SDI/SSM/parity/speed & IWG shown for each word
- 1 microsecond time tag
- Acquisition filter/trigger by: label/SDI/SSM/parity/bit pattern

#### ARINC 429 Tx/Rx:

 Complies with the specification - Mark 33 Digital Information Transfer System (DITS)

#### **Power Supply:**

85 to 265 volts, 40 to 400 Hz

#### **Controls & Displays:**

- ON/OFF switch
- 4 Push button software control
- Hexadecimal keypad for data entry
- Menu driven software interface
- 256 x 64 Dot graphic display
- Power-ON indicator

#### **Computer Interface:**

- Menu driven PC software
- User definable label definitions/conversions (discrete/BCD/BNR)
- All definitions saved to PC and downloaded to tester

**Dimensions:** Approximately 180 x 430 x 330 (HWD) mm (7 x 17 x 13) inches

**Weight:** Approximately 7.5 kg (16lbs) **Temperature Range:** 0C to +40C

(32F to 104F)

#### **Nato Stock Number:**

4920-99-251-2174

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