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YED/429/R1/DAT1

ARINC429 to Voltage output (10VDC) Data Protocol Converter

The YED/429/R1/DAT1 protocol converter is designed to extract a specific ARINC429 parameter from a user selectable Label and translate it into a 0-10VDC output.

The Octal Label, the SDI, SSM and state of the parity (ODD/EVEN/NONE) are all selected via setting DIP switches on the PCB. The converter adapts automatically to high or low speed (12.5/100kHz) ARINC429 data and the inputs are opto-coupled for electrical isolation purposes. The unit is powered from an external 28 VDC (15-72V) nominal supply with an internal current and thermal (102 Deg C) fuse. The power inputs are reverse polarity protected.

Three optional LED's can be provided that indicate the following status:

- LED indicating no received data
- LED indicating Low Speed data
- LED indicating High Speed data

The converter employs a 12-Bit D/A resolution converter which takes its input from an ARINC429 word - bits 28..17. Different output voltage options and resolutions are available upon request. There is also a DIP switch option to allow the user to have data extracted from data bits 26..15.

YED/A429/R1/DAT1 Product Specification

- ARINC429 to DC: 10VDC @ 25mA
- DIP selectable Label, SSM, SDI, and Parity.
- Automatic reception of Hi/Lo bit rate data.
- Status indicator LED's (Optional)
- 12-bit D/A resolution.
- 15-72VDC power operation @ 40mA
- Reverse power polarity protected.
- Dimensions: 1.8" x 4" (PCB)
- Boxed: 140 (L) x 65 (W) x 30 (H) mm
- Opto-coupled Rx inputs.
- D9 Filtered I/O connector.
- Current & thermal fuses (1Amp/102Deg.C)

![YED logo] CE

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