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High Speed (20MHZ) , High Shock (275g) PCM Encoder



Applications

- Missile and Weapons Performance Testing
- Aircraft, UAV and Targets Flight Testing
- Vehicle Performance Testing
- Space Applications
- Research, Measurements and Experiments

Features

- Stand-alone Operation
- PCM Encoder
 - 32 Analog Channels
 - 12 Discrete Channels
 - 2 Digital Channels
- Integral signal conditioning capability:
 - Accelerometers, RTD, General Purpose
 - Bi-Level, HDLC/SDLC & Async Digital Data
- High Speed Operation to 20 Mbps
- Programmable Bit Rate and Bits per word (8, 9, 10, 11, 12) on a format basis
- Buffered Data Outputs
 - Filtered RNRZ-L Telemetry Data Output (SE output for 50 ohm load)
 - RNRZ-L Data/Clock Output (RS-422)
 - NRZ-L for Diagnostics (RS-422)
- Built-in Flexibility
 - Programmable via serial RS-232 Connection
 - PC-based software application provided (PCM-3214-HS Setup Software™)
- Diagnostics & Maintenance via RS-232
- Overall Analog System Accuracy: +/-1%

Description

The PCM-3214-HS-1 is a high-speed, stand-alone PCM Encoder with integral signal conditioning. The unit handles up to 32 Analog channels, 12 Discrete channels, and 2 Serial Digital channels. The Analog input channels consist of 3 Accelerometers, 3 RTDs and 26 General Purpose inputs. The Serial Digital Inputs consist of an Asynchronous Data channel and a HDLC/SDLC Data channel. There are 3 outputs; 2 Non-filtered and 1 Premodulation filtered outputs. The 2 Non-filtered outputs are RNRZ-L and NRZ-L with a synchronized clock. The premodulation filter output provides RNRZ-L or NRZ-L coded output whose cutoff frequency and amplitude are user-programmable. The PCM-3214-HS-1 unit is very small and rugged, and is suitable for installation in remote or inaccessible areas.

Revision 10/19/2009

PCM-3214-HS-1 Datasheet

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 Specifications subject to change without notice.



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