

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



#### Applications

- 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, Synchronous & Asynchronous Digital Data
- High Speed Operation to 20 Mbps
- Two Selectable Bit Rates
- 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-8 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 2 Synchronous and 1 Asynchronous Data channels. 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 amplitude is programmable. The PCM-3214-HS-8 unit is very small and rugged, and is suitable for installation in remote or inaccessible areas.

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#### PCM-3214-HS-8 Datasheet

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Specifications subject to change without notice.

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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