

128 channel PSI HD conventional and DTC pressure scanner interface card



Applications

- Flight Test Instrumentation
- Pressure Measurement
- Engine and Fuel System Testing
- Pressure Control Systems

Features

- Interfaces To two individual “ESP Series”, and “ESP Series with DTC option” Pressure Scanners
- Up to 128 Pressure Channels available at 16-bit data resolution
- Compatible with EDAU-20xx, CDAU-20xx or WDAU-20xx series Systems
- Fourth Order Polynomial Gain and Offset Correction
- Compensated over temperature range
- Programmable digital moving average filters provide a choice of channel filtering options
 - Choices are 1 sample (no MAV filter), to 256 samples programmable in 1 sample step.
- Sampling rates up to 50KSPS when using DTC scanner option.
- Automatic Pressure Correction Coefficient table loading with DTC Option selected.
- Programmed with TTCWARE

Description

The PSS-201D-1 is a 128 channel, DSP based, PSI HD conventional and DTC pressure scanner interface unit designed for use in TTC’s of Distributed Data Acquisition products. The module provides power and address to two pressure scanners and digitizes analog pressure and temperature data from each scanner. The DTC scanner holds the pressure calibration coefficients that will be read by the PSS-201D-1 module and used to correct the pressure data over temperature. The pressure data will be available to be read from the module at up to 16-bit data resolution by the system overhead.

Each pressure sensor input can have 4th order polynomial gain and offset correction. This 4th order correction can be applied over the operating temperature range when the ESP scanner is equipped with the Temperature Sense Output. When using the ESP scanner with DTC compensation option, Pressure Systems Inc. pressure correction algorithms are utilized to provide higher target pressure accuracies, with the option to load these tables automatically from a given pressure scanner. For both scanner types the temperature of the scanner can also be read back at 16-bit resolution in the output data stream.

Programmable digital moving average filters provide a choice of noise reducing channel filtering options.

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PSS-201D-1 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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