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MPAD-S BlueLine²

analog input card for vibration monitoring



The MPAD-S is an analog input card for GA safety and control systems. It is intended for high-speed data acquisition, especially for machine condition monitoring and vibration monitoring. The MPAD-S supports 16 input channels.

Remark:
If analog outputs will be used the card is named **MPADA-S**.

Technical data

- 16 analog inputs (0…25mA, -20V…0V, 0V….+20V)
- **optional** additional 16 analog outputs (-10V….+10V)
- high-speed analog/digital converter
  - 2x 8 synchronous track & hold amplifier
  - 16-bit resolution per channel
- analog frequency band 0….20kHz
- sampling time: ≥ 25 µs per channel
- 4 phase trigger inputs
- phase resolved signal sampling supported
- high diagnostic coverage through automatic online self-tests for all channels
- monitoring of all operating voltages, processor and field
- galvanic isolation between field and data bus
- rf-capable signal termination and cabling
- isolated power supply for each I/O channel
- hot-replaceable

- operating temperature -20°C ... 70°C
- relative humidity: 10 ... 90%, non-condensing
- shelf life: unlimited

Features

- high-speed, synchronous sampling
- compatible to common proximity, velocity and acceleration transducers
- stand-alone system architecture possible, dual and triple redundant (TMR) system architectures supported

- SIL1 / SIL2 certified variant available

- applied standards:
  IEC 61508, EN ISO 13849, IEC 62061, IEC 61511, IEC 61131-2, EN 50178, EN 50155, EN 50156, IEC 61326, EN 50130, EN 61373,IEC 61131-6, EN 55016

DATASHEET