GEBHARDT Automation GmbH

GEBHARDT Automation GmbH | Thüngenfeld 3 | D-58256 Ennepetal
info@gebhardt-automation.de www.gebhardt-automation.de

MCAD model 6
analog input card, 16 input channels



The MCAD card is an analog input card for non-safety-related current or voltage field signals. It is certified not to interfere with safety functions when used in mixed-mode systems.

Technical data

- 16 differential analog input channels for current: 0 ... 22 mA
  or 4 individually adjustable voltage ranges: 0 ... 5.478V, 0 ... 2.739V,
  0 ... 1.3695V, 0 ... 10.956V
- MCU mixed signal micro-controller with integrated 12-bit A/D converter
- low pass input filter with cut-off frequency of 1 kHz
- sampling time for all 16 inputs: approx. 2 ms
- analog multiplexer with overvoltage protection up to +/-33V
- electrical isolation between input-side and backplane interface
- integrated sensor for card temperature measurement
- gain and offset programmable
- automatic self-calibration during operation
- time-optimized DSP bus interface with dual-ported RAM (DPR)
- automatic card identification in FS1 bus
- card address configurable by rotary switch

- hot-replaceable
- signals connected via DIN 41652 Sub-D multipoint female connector (50-pin), at the face plate

- current consumption:
  +5V/450mA typical, +-15V/80mA typical
- power supply: 4.85V ... 5.25V, max. 80mV Vpp ripple

- dimensions: 4TE , 3 HE, 175mm (WxHxD)

- operating temperature range: -20° ... 60 °C
- relative humidity: 10 ... 90%, non-condensing
- shelf life: unlimited

- applied standards: IEC 61131-2, EN 55016

DATASHEET