

BI16

Analog input module

Overview

- Analog input module for Atlas devices
- Measurement of milliampere currents (-20mA to +20mA, 0 to 40mA)
- Software programmable input range and per channel filtering
- Operation self-diagnostics
- Malfunction LED indication

Function description and application

Analog input module BI16 measures analog current signals for internal processing control of Atlas Max[®], Atlas XP2 and Atlas MTU controllers.

Design

BI16 module is designed as dual PCB Eurocard (233.4x162.5mm), with front mask dimensions 262x30mm for mounting in standard 19" racks.

Interface

| | |
|------------------|--------------|
| Number of inputs | 16 |
| Interface type | Differential |

Technical specifications

Measuring range of input signals

| | |
|--------------------|----------------------|
| • current input | -20 to 20 mA, 0-40mA |
| | 0 to 20 mA |
| | 4 to 20 mA |
| | -10 to 10 mA |
| | 0 to 10 mA |
| | 1 to 10 mA |
| | 0 to 5 mA |
| | -5 to 5 mA |
| | -2.5 to 2.5mA |
| • input resistance | 25 Ω |

A/D converter (per channel):

| | |
|-------------------|-----------|
| • resolution | 24 bits |
| • accuracy | +/- 0.05% |
| • conversion time | 20ms |

| | |
|--------------------------------|------|
| Max input sampling rate | 5 Hz |
|--------------------------------|------|

| | |
|---------------------------|-------------|
| Galvanic isolation | per channel |
|---------------------------|-------------|

| | |
|---------------------|---|
| Power supply | internal +5VDC, 0.7A external +12VDC, 0.6A |
|---------------------|---|

