BI16I
Analog input module

Overview

- Analog input module for Atlas devices
- Measurement of miliampere 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 BI16I measures analog current signals for internal processing control of Atlas Max®, Atlas XP2 and Atlas MTU controllers.

Design

BI16I 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	12,5 Hz
Galvanic isolation	per channel
Power supply	internal +5VDC, 0.5A