

BR16

Analog input module

Overview

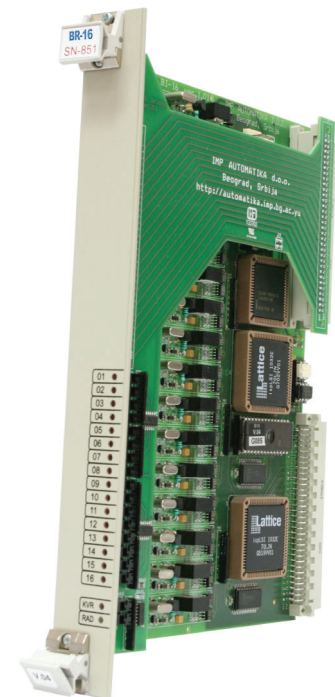
- Analog input module for Atlas devices
- Resistance measurement (0 to 2000 Ω)
- Software programmable input range and filter individually per channel
- Operation self-diagnostics
- LED indication of wire break and module operation/malfunction

Function description and application

Analog input module BR16 accepts analog signals from resistive transducers for internal processing control of Atlas Max[®], Atlas XP2 and Atlas MTU controllers.

Design

BR16 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 2, 3 and 4-wire

Technical specifications

Measuring range of input signals

• Pt100	-100 to 309,5 C 0 to 850 C
• Pt200	-100 to 309,5 C
• Pt500	-100 to 309,5 C
• Pt1000	-100 to 100 C
• Cu10	-50 to 150 C
• Cu100	-50 to 150 C
• Cu53	-50 to 150 C
• Ni100, Ni120, Ni250	-50 to 150 C

A/D converter (per channel):

• resolution	24 bits
• accuracy	+/- 0.05%, +/-0,1 C Pt100 4w, +/- 1 C for Cu10
• conversion time	20ms

Max input sampling rate 5 Hz

Galvanic isolation per channel

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