S800 I/O

Product Data Sheet

AI843

Thermocouple analog input module

INPUT CHANNELS	CONVERSION RESOLUTION	LINEAR INPUT RANGE	INPUT IMPEDANCE
8	**16 bits**	**-30 to +75 mV**	**Greater than 1 Mohm**

ABB AI843 is an eight-channel S800 analog input module for thermocouples and low-level millivolt signals. It provides 16-bit conversion and supports the documented thermocouple types with group isolation from ground.

01 TECHNICAL DATA

Input channels	8
Conversion resolution	16 bits
Linear input range	-30 to +75 mV
Input impedance	Greater than 1 Mohm
Maximum error	0.1%
Typical temperature drift	10 ppm/deg C
Maximum temperature drift	25 ppm/deg C
Cold-junction input	Pt100 on channel 8
Isolation	Groupwise from ground
Rated insulation voltage	50 V

ABB Compact Product Suite Catalog 3BSE062980; exact-model ABB hardware-selector specifications

02 ADDITIONAL PRODUCT DATA

Dielectric test voltage	500 V AC
Power dissipation	1.5 W
5 V ModuleBus current	60 mA
24 V ModuleBus current	50 mA
Mechanical keying	BA

03 PRODUCT FUNCTION

Channel 8 can accept a Pt100 input for cold-junction compensation. The module measures a -30 to +75 mV linear range, supports redundant arrangements with the appropriate termination units, and reports module and channel supervision through its diagnostics.

04 SYSTEM COMPATIBILITY

Channel 8 can accept a Pt100 input for cold-junction compensation. The module measures a -30 to +75 mV linear range, supports redundant arrangements with the appropriate termination units, and reports module and channel supervision through its diagnostics.

05 REFERENCE

ABB Compact Product Suite Catalog 3BSE062980; exact-model ABB hardware-selector specifications

AMIKON PRODUCT SUPPORT

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