

BSG-RTIO-AI

2 Channels 4-in-1 Analog Input Module

(Voltage / Current / Thermocouple / RTD)



Main Features

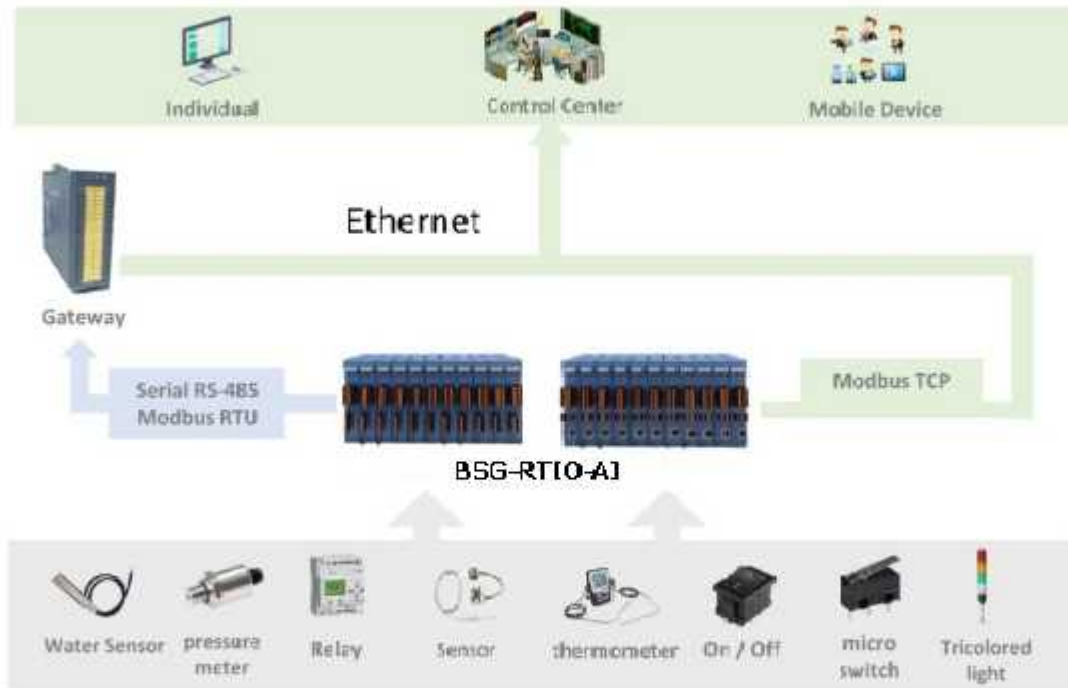
- 2-Ch Analog Input
- 4-in-1 Analog Input Module (voltage /current / thermocouple /RTD)
- Channel Independent Configuration



Introduction

The BSG-RTIO-AI is a 2 Channels 4-in-1 Analog Input Module (Voltage / Current / Thermocouple / RTD) which provides industries who might only need less channel for data acquisition.

Application-From Data Acquisition to Central Management



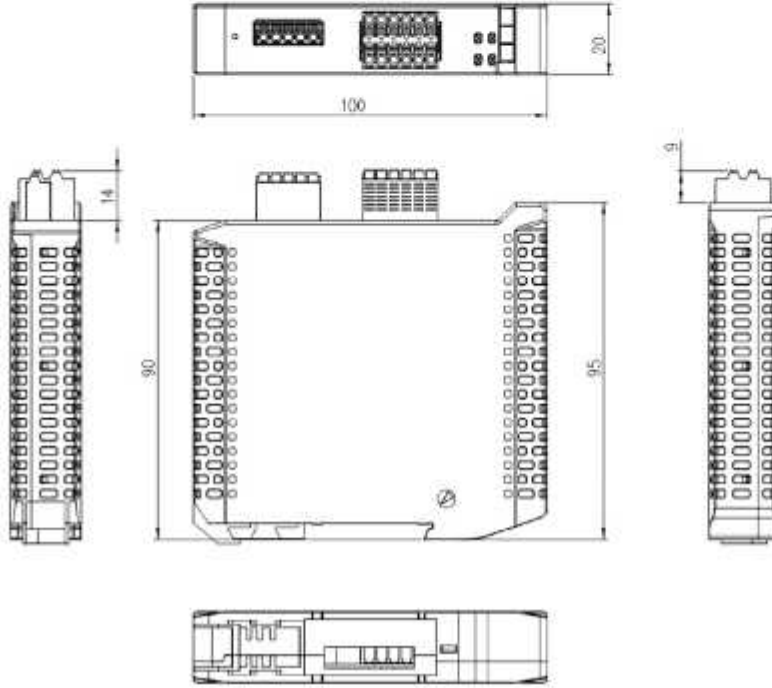
Specification

Model Name	BSG-RTIO-AI
General	
Power Requirement	10 ~ 36 VDC
Power Consumption	1.2 W @ 24V
Watchdog Timer	Yes
Connector	Plug-In Terminal Block (#16~30 AWG)
Temperature (Operating)	-25~70°C
Temperature (Storage)	-30~75°C
Humidity	5~95%
Interface	RS-485
Communication Protocol	Modbus RTU
Communication Speed	Serial: From 2.4 to 115.2 kbps
Communication Distance	Serial: 1.2 km at 9.6 kbps
Isolation Protection	2500 VDC
I/O Specifications	
Channels	2 Channels
High Voltage Input	±5V, ±10V, 0 ~ 5V, 0 ~ 10V
Low Voltage Input	±100mV, ±500mV, ±1V, 0~100mV, 0~500mV, 0 ~ 1V
Current Input	±20mA, 4~20mA, 0~20mA
TC Sensor Input	J, K, T, E, R, S, B, N
RTD Sensor Types	Platinum 100 α = 0.00385 (IEC) -200 ~ 600°C Platinum 100 α = 0.00392 (JIS) -200 ~ 600°C Platinum 1000 α = 0.00385 (IEC) -200 ~ 600°C
Disconnection Detection	4 ~ 20 mA, all T/C , all RTD
Channel Independent Configuration	Yes
Sampling Rates	2 samples /second
Resolution	16-bit
Accuracy	±0.1% FSR
Input Impedance	Voltage: 100 K Ω Current: 120 Ω
Span Drift	±25 ppm/°C
Zero Drift	±6 μ V/°C
Input Voltage Protection	±36V for Input Terminal: U+

BSG-RTIO-AI

	$\pm 12V$ for Input Terminal: M+, M-, S-
Input Current Protection	50 mA for Input Terminal: I+

Dimension



Unit: mm

Order Information

Model Number	Housing
BSG-RTIO-AI	Plastic Housing