

■ Introduction _

The SG-3011H is a thermocouple input signal conditioner. SG-3011H uses microprocessor-controlled high-resolution 24-bit dual-slope, integrating A/D converter to acquire thermocouple signal and cold junction compensation input. Temperature measurement is performed using the thermocouple linearization and cold junction compensation function. Thermocouple types J, K, T, E, R, S, B, N, C, L, M, L2 (DIN43710) are supported, and a 2 kHz sampling rate is provided for thermocouple input. The power supply that drives the module's input and output circuitry is internally isolated, enabling SG-3011H to offer true channel - to - channel isolation. It is easy to mount the SG-3011H on a standard DIN rail and can operate in environment with wide temperature range.

■ Features

- High-Speed Sampling Rate: 2 kHz
- Configurable for a Wide Range of Thermocouple Types
- CJC Offset Adjustable
- Open Thermocouple Detection
- Three-way Isolation: 1000 VDC
- Operating Temperature Range: -25 ~ +75°C



Applications

- Building Automation
- Factory Automation
- Machine Automation
- Remote Maintenance
- Remote Diagnosis
- Testing Equipment

System Specifications _

Yes, 1 LED as Power/Communication Indicator		
1000 VDC		
EMS Protection		
±4 kV Contact for each Terminal		
±4 kV for Power Line		
-		
Power		
Yes		
+10 ~ +30 VDC		
1.44 W		
24.5 mm x 74.5 mm x 113.0 mm		
Environment		
-25 ~ +75°C		
-40 ~ +85°C		
10 ~ 95% RH, Non-condensing		

I/O Specifications .

Thermocouple Input	
Channels	1
Туре	J, K, T, E, R, S, B, N, C, L, M, LDIN43710
Resolution	24-bit
Accuracy	±0.1% of FSR
Bandwidth	2 kHz
Temperature Drift	2°C
Open Thermocouple detection	Yes
Analog Output	
Channels	1
Range	0 ~ 10 V, 0 ~ 20 mA
Resolution	12-bit
Accuracy	±0.1% of FSR
Voltage Output Capability	10 V @ 20 mA
Current Load Resistance	500 Ω

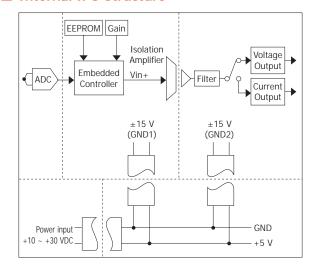
Amplicon.com

IT and Instrumentation for industry

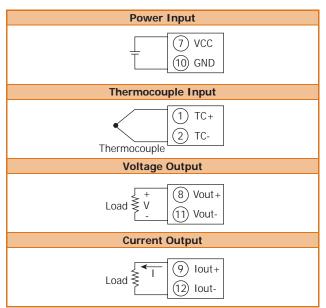
Amplicon

Sales: +44 (0) 1273 570 220 Website: www.amplicon.com Email: sales@amplicon.com

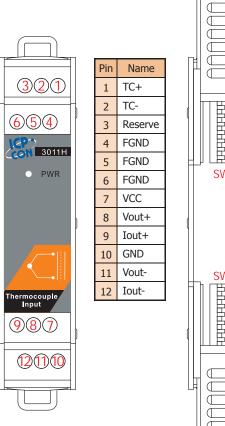
■ Internal I/O Structure



Wire Connections



■ PIN Assignment

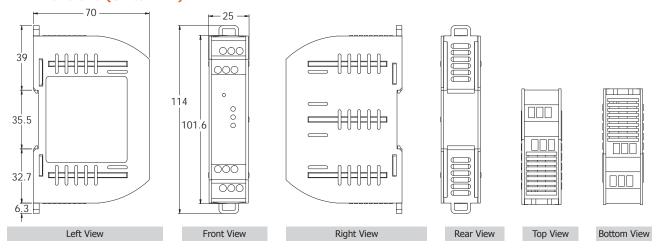


To open \mathbb{D} \mathbb{D} \Box \mathbb{D} SW2 SW1 \mathbb{D} \Box \mathbb{D}

D

 \mathbb{D}

■ Dimensions (Units: mm)



Ordering Information :

SG-3011H CR Isolated Thermocouple Input Module (Gary Cover) (RoHS)

Amplicon.com

IT and Instrumentation for industry



Sales: +44 (0) 1273 570 220 Website: www.amplicon.com Email: sales@amplicon.com