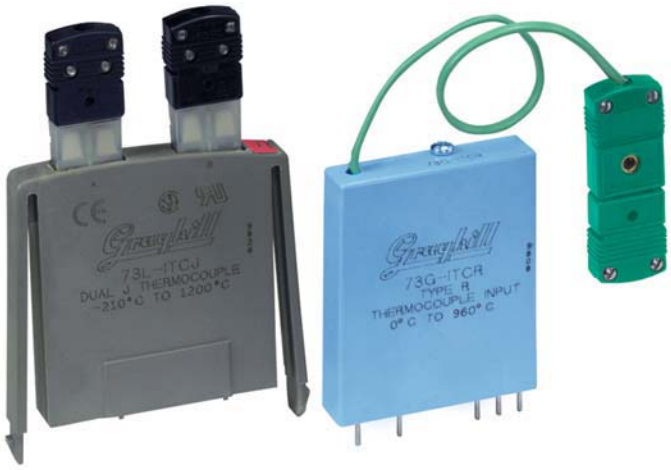
FEATURES

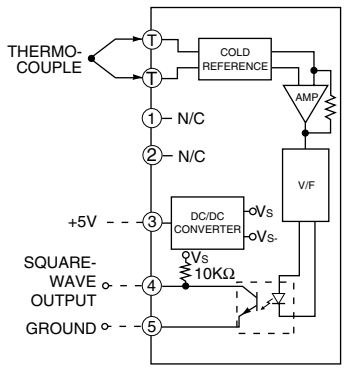
- Wide Variety of Input Types
- Standard Package and Pin-out
- Single 5V Power Supply
- 12-Bit Resolution
- Optical Isolation from Input to Output
- Cold Junction Temperature Compensated Connector Included
- Intermix With G5 Digital Modules on the Same Rack
- Meets the Requirements of IEEE 472
- UL, CSA, CE Certified (OpenLine only)



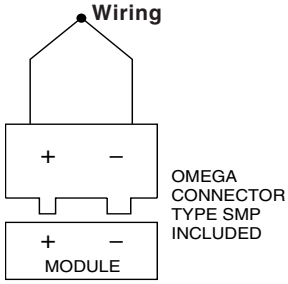
73L-IT 73G-IT

CIRCUITRY

G5

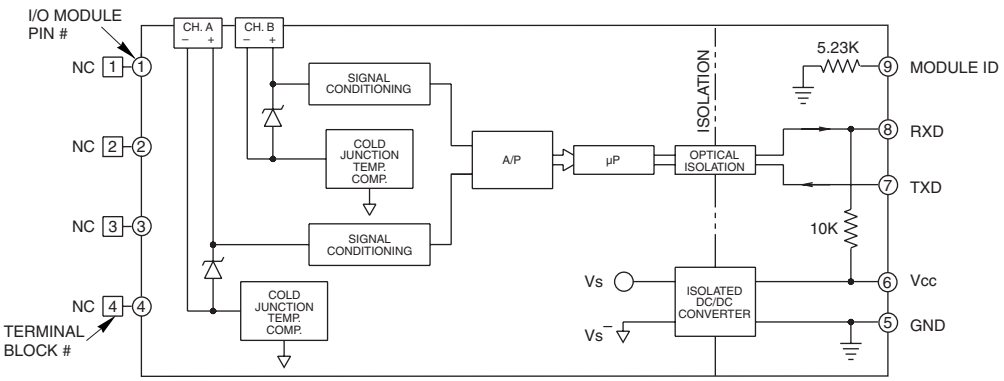


G5: Connector Wiring

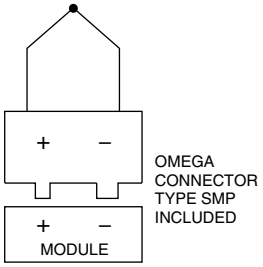


Thermocouple Wire Colors		
Type	+	–
J	White	Red
K	Yellow	Red
T	Blue	Red
R	Black	Red

OpenLine®



OpenLine®: Connector Wiring



Thermocouple Wire Colors		
Type	+	–
J	White	Red
K	Yellow	Red
T	Blue	Red
R	Black	Red

SPECIFICATIONS: By Part Number

Type/Function		Grayhill Part Number		
G5		73G-ITCJ	73G-ITCK	73G-ITCR
Specifications	Units			
Number of Inputs		1 Ch.	1 Ch.	1 Ch..
Resolution	bits	12	12	12
	°C/count	0.18	0.25	0.23
Absolute Accuracy @ 25°C[1, 2]	°C	+/- 3.0	+/- 3.0	+/- 3.0
Accuracy Drift w/Temp.[2]				
Maximum Offset	PPM/°C	+/- 100	+/- 100	+/- 100
Maximum Gain (0 to 60°C)	PPM/°C	+/- 55	+/- 55	+/- 55
Serial Data Format		12-bit packet	12-bit packet	12-bit packet
Serial Data Packet		—	—	—
Step Response Time[3]	mS	2.5	2.5	2.5
Input Temperature Range	°C (°F)	0 to 700 (32-1292)	-100 to 924 (-148-1695)	0 to 960 (32-1760)
Maximum Overload	V	—	—	—
Logic Voltage Range	Vdc	4.5 to 5.5	4.5 to 5.5	4.5 to 5.5
Maximum Logic Supply				
Current @ 5V dc	mA/Ch.	150	150	150
Module ID (Pin 9)	KW	—	—	—
Isolation Voltage				
Field to Logic	Vrms	2500	2500	2500
Field to Power	Vrms	2500	2500	2500
Module to Module	Vrms	2500	2500	2500
Channel A to Channel B		—	—	—
Environmental Conditions				
Operating Temperature[3]	°C	0 to 60	0 to 60	0 to 60
Storage Temperature	°C	-25 to 85	-25 to 85	-25 to 85

Type/Function		Grayhill Part Number	
OpenLine®		73L-ITCJ	73L-ITCK
Specifications	Units		
Number of Inputs		2 Ch.	2 Ch.
Resolution	bits	12	12
	°C/count	0.34	0.36
Absolute Accuracy @ 25°C[1, 2]	°C	+/- 1.0	+/- 1.0
Accuracy Drift w/Temp.[2]			
Maximum Offset	PPM/°C	+/- 50	+/- 50
Maximum Gain (0 to 60°C)	PPM/°C	+/- 100	+/- 100
Serial Data Format		Right Justified,16-bit	Right Justified,16-bit
Serial Data Packet		115.2 Kb, N, 8, 2	115.2 Kb, N, 8, 2
Step Response Time[3]	mS	100	100
Input Temperature Range	°C (°F)	-210 to 1200 (-346 to 2192)	-100 to 1372 (-148 to 2502)
Maximum Overload	V	+/- 6	+/- 6
Logic Voltage Range	Vdc	4.75 to 5.25	4.75 to 5.25
Maximum Logic Supply			
Current @ 5V dc	mA/Ch.	38	38
Module ID (Pin 9)	KW	5.23	5.23
Isolation Voltage			
Field to Logic	Vrms	2500	2500
Field to Power	Vrms	2500	2500
Module to Module	Vrms	2500	2500
Channel A to Channel B		None	None
Environmental Conditions			
Operating Temperature[3]	°C	-40 to 85	-40 to 85
Storage Temperature	°C	-55 to 100	-55 to 100

[1] Includes offset, gain, non-linearity and repeatability error terms.
[2] Accuracy and drift graphs are available in Bulletin #753.
[3] Time required for output to change within 1% of final reading.

Available from your local Grayhill Distributor. For prices and discounts, contact a local Distributor, a local Sales Office or Grayhill.