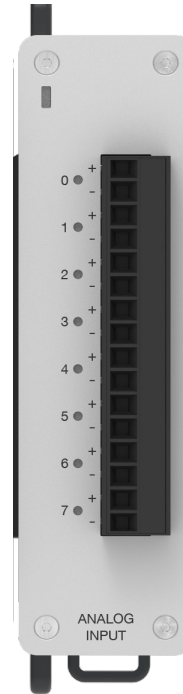


# Analog Input Module

## IG41 Datasheet



### ENCLOSURE

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Dimensions (HxWxD)	100 mm x 30mm x 102 mm (36mm width with backplane connector)
Weight	0.25kg (0.55lbs)
Mounting	DIN-rail, Wall mount

### ENVIRONMENTAL

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Operating temperature	-40°C to +70°C / -40°F to +158°F
Storage temperature	-40°C to +85°C / -40°F to +185°F
Operating humidity	10% RH to 90% RH, noncondensing
Storage humidity	5% RH to 95% RH, noncondensing
Ingress protection	IP20

# IG41 Analog Input Module

## GENERAL

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Number of inputs	8 differential
Commons	1
Input voltage range	0-10V
Input current range	4-20mA
Configurable (current, voltage)	Yes (per channel)
Resolution	16 bits
Conversion time	850 nS max
Sample rate	5 kHz analog sampling
Input impedance (voltage mode)	500k Ohms
Input impedance (current mode)	200 Ohms
Module power consumption	1.5W
Connectivity	Screw terminal
Hot swappable	No

System LED	<b>LED State</b>	<b>Indicates</b>
	Solid Green	All functionality working
	Blinking Red	Reboot required
	Solid Red	Error - contact Samsara support

Channel LED	<b>LED State</b>	<b>Indicates</b>
	Solid Blue	Voltage mode
	Solid Orange	Current mode
	Blinking	Error - contact Samsara support

# IG41 Analog Input Module

## SHOCK & VIBRATION

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Free fall	IEC 60068-2-32 (Freefall)
Operating shock	IEC 60068-2-27, 30 g, 11 ms half sine; 50 g, 3 ms half sine
Operating vibration	IEC 60068-2-64, 5 Grms, random, 5 ~ 500 Hz IEC 60068-2-6, 5 g, sinusoidal, 10 Hz to 500 Hz

## SAFETY, HAZARDOUS LOCATIONS, & COMPLIANCE

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Hazardous locations	US (UL) <ul style="list-style-type: none"><li>· Class I, Division 2, Groups A, B, C, D, Temperature Class T4</li><li>· Class I, Zone 2, Group IIC</li></ul>
Safety & hazardous locations standards	<ul style="list-style-type: none"><li>· UL/IEC 61010-1 (Safety)</li><li>· UL/IEC 61010-2-201 (Safety)</li><li>· UL 121201, CSA C22.2#213 (Hazardous Locations)</li></ul>
Electromagnetic compatibility	<ul style="list-style-type: none"><li>· FCC 47 CFR Part 15B, Class A</li><li>· ICES-001</li></ul>

*Note: In the United States (per FCC 47 CFR), Class A equipment is intended for use in commercial, light-industrial, and heavy-industrial locations. In Europe, Canada, Australia and New Zealand (per CISPR 11) Class A equipment is intended for use only in heavy-industrial locations.*

*For use in hazardous locations, device needs to be installed in a tool secured NEMA 4X enclosure.*