

GX-AI31V

iO-GRID X Analog Input Module

8-channel analog voltage input module supporting 0-10V, 0-5V, 1-5V, and $\pm 10V$ input ranges.

12-bit resolution supports multi-channel voltage signal acquisition.

Upper/lower limit and offset settings provide greater application flexibility.

Watchdog monitoring support helps improve overall system reliability.

Push-in wiring design supports easy installation and efficient field maintenance.



Product
Certification



Technical Specifications

Module Type	Analog Input Module
Field Voltage Supply	24 VDC (-15%~+20%)
Field Current Consumption	Max. 9.5mA@24VDC
System Voltage Supply	5 VDC; via power jumper contacts
System Current Consumption	Max. <120mA@5VDC
Input Impedance	$\geq 1\text{ M}\Omega$
Number of Analog Input	8
Analog Input Signal Type	-10V ~ +10V□0V ~ +10V□ 0V ~ +5V□1V ~ +5V
Analog Input Signal Design	single-end signal
Resolution	12 bit
Accuracy	$\pm 0.1\%$
Connection Method	Push-in connection
Conversion Time	10ms
Isolation Method	Photocoupler Isolation
Indicators	8 Green Input Status□Power Status : Green□ System Status : Green□Alarm Status : Red

General Specifications

Dimensions (W*D*H)	12 x 105 x 69mm
Weight	60g
Operating Temperature	-10 ... 60 °C
Storage Temperature	-25...+85 °C
Permissible Humidity(Non-condensing)	RH 95%



Altitude Limit	< 2000 m
Ingress Protection (IP)	IP20
Pollution Severity	II
Product Certification	UL / CE
Wire Range (IEC / UL)	0.2mm ² ...1.5mm ² (AWG 24...16)
Suggested Terminals	DN00510D/DN00710D