OVATION HIGH-DENSITY ANALOG INPUT

Product Data Sheet

5X00501G01

16-channel analog input electronics module

CURRENT INPUT CHANNELS	NOMINAL INPUT SIGNAL	A/D RESOLUTION	INPUT IMPEDANCE
16	**4 to 20 mA**	**14 bits, no missing codes**	**130 ohm +/-0.1%**

Emerson 5X00501G01 is the electronics module for the Ovation sixteen-channel 4 to 20 mA analog input assembly. It connects field current-loop signals to the controller through the matching personality interface and requires the four-slot 5X00497G01 I/O base.

01 VERIFIED TECHNICAL DATA

Current input channels	16
Nominal input signal	4 to 20 mA
A/D resolution	14 bits, no missing codes
Input impedance	130 ohm +/-0.1%
Complete-channel refresh	200 ms for 16 channels
Conversion sampling	50 samples/s at 50 Hz rejection; 60 samples/s at 60 Hz rejection
Reference accuracy	+/-0.10% full scale +/-0.5 LSB at 25 +/-1 °C, 50 +/-1% RH, 0 V common mode
Open-loop band	0 to 2.5 mA
Channel-to-logic isolation	1000 V AC/DC
Channel-to-channel isolation	Common reference

Values follow the applicable manufacturer documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Main supply consumption	1.20 W typical; 1.38 W maximum
Two-wire auxiliary power	8.16 W typical; 9.38 W maximum
Four-wire auxiliary power	0.48 W typical; 0.56 W maximum
Transmitter loop power	19.18 V available at 20 mA
Required base	5X00497G01 four-slot I/O base

03 DOCUMENTED USE SETTINGS

Thermal Electricity and Hydroelectric Power Generation: Combined-Cycle Power Generation.

Renewable Electricity and Low-Carbon Energy Development: Solar Power Generation.

Municipal Water Supply and Industrial Wastewater Treatment: Drinking Water Treatment.

04 SYSTEM COMPATIBILITY

Allocate sixteen current-loop channels and the required four-slot base in the Ovation configuration. The assembly is documented for Windows Ovation 3.4 and above and cannot be installed on the standard two-slot I/O bases identified in the reference manual.

05 PRODUCT EVIDENCE

Emerson Ovation I/O Reference Manual REF_1150, October 2011, section 4.8

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**