

OVATION 16-CHANNEL RTD INPUT

Product Data Sheet

5X00622G01

16-channel RTD input electronics module

RTD INPUT CHANNELS	CHANNEL SAMPLING INTERVAL	RESISTANCE RANGES	CONVERSION RESOLUTION
16	50 ms in 50 Hz and 60 Hz modes	31.25, 125, 250, 500, 1000 and 2000 ohm	14 bits

Emerson 5X00622G01 is the Ovation sixteen-channel RTD input electronics module for resistance-based temperature measurement. It belongs to the high-density I/O group that requires a four-slot Ovation base and supports the resistance ranges specified for the RTD input assembly.

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VERIFIED TECHNICAL DATA

RTD input channels	16
Channel sampling interval	50 ms in 50 Hz and 60 Hz modes
Resistance ranges	31.25, 125, 250, 500, 1000 and 2000 ohm
Conversion resolution	14 bits
Power supply voltage	21 V minimum; 24 V nominal; 25 V maximum
Typical module power	3.87 W
Measurement accuracy	+/-0.10% of span at 99.7% confidence
Maximum lead resistance	100 ohm per lead
Channel-to-channel withstand	+/-1000 V DC peak for 1 minute
Channel-to-logic withstand	+/-1000 V DC for 1 minute

ADDITIONAL PRODUCT DATA

Normal-mode rejection	60 dB typical at 50 or 60 Hz +/-1 Hz
Bus watchdog timeout	1.5 s, +/-20%
Operating ambient temperature	0 to 60 °C
Storage temperature	-40 to +85 °C
Non-condensing humidity	0 to 95%

DOCUMENTED USE SETTINGS

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

Hydroelectric Generation and Grid Energy Storage: Run-of-River Hydropower.

Thermal Electricity Production and Regional Heat Supply: Gas-Fired Power Generation.

SYSTEM COMPATIBILITY

Select the configured RTD resistance scale and the correct sensor wiring arrangement before assigning engineering-unit conversion. The documented three-wire scales extend from 31.25 to 2000 ohm; the maximum single-lead resistance is 100 ohm.

PRODUCT EVIDENCE

Emerson Ovation 16 Channel RTD Input Module PWS_008222 [5] and OW360_R1005 four-slot base selection