

8000 RAO-208

The 8000 RAO-208 module provides high-density analog output capability for SY/MAX[®] series processors. Designed to operate as a single-slot standard-depth register module compatible with SY/MAX Models 300, 400, 500, 600, 650 and 700 processors, these modules can significantly reduce slot requirements for systems requiring large quantities of analog outputs.

The 8000 RAO-208 module provides two groups of auto-calibrated analog outputs. (*Never touch a trim pot again.*) Each isolated group consists of 4 analog output channels that can be independently configured to meet virtually all high-level analog output requirements. Each output channel can be set to shut down safely to zero, hold at last value, or preset to known value during SY/MAX processor HALT conditions.

Located on the front of the module are two removable terminal strips which provide easy connection to field devices. These terminals allow quick replacement of the module in the field.

APPLICATIONS

- Process applications
- High-count analog applications
- Wastewater, petrochemical, and many others

BENEFITS

- 8 output points per module
- Continuous full-time auto-calibration
- Output signal error detection
- SY/MAX[®] 8020 Series processor compatibility
- Standard-slot width and depth
- Compatible as local or remote I/O
- Removable field termination strips



8000 RAO-208

ELECTRICAL SPECIFICATIONS

Outputs	8
Ranges	0-5 V _{DC} , 1-5 V _{DC} , 0-10 V _{DC} ±5 V _{DC} , ±10 V _{DC} & 4-20 mA
Resolution	14 bits
Accuracy	+/-0.1% @ 25° C ±0.25% over 0-60° C range
Conversion Rate (all channels)	<100 ms (typ.)
Calibration	Continuous, Automatic
Output Drive	10 mA (voltage) 20 mA (current into 600 ohms)
Isolation	1000 V channel to ground 500 V output to output 1500 V transient
Output Options	
Hold (CPU in halt)	Last value while in run
Reset (CPU in halt)	Set to minimum value
Preset (CPU in halt)	Set to preset value
Output Protection	
Voltage Mode	Short circuit protection
Current Mode	Open circuit detection
Rack Compatibility	All 8030 series SY/MAX racks with addressable slots
Power Requirements	1500 mA from SY/MAX family power supply

PHYSICAL SPECIFICATIONS

Weight	2.8 lb, 1.3 kg
Dimensions (HxWxD)	1.5 x 12.8 x 6.6 in., 3.8 x 32.5 x 16.8 cm.

ENVIRONMENTAL SPECIFICATIONS

Ambient Temp. Rating	0-60° C / 32-140° F (operational)
Humidity Rating	5-95% Relative Humidity (non-condensing)
Storage Temperature	-40 to 100° C

ORDERING INFORMATION

Part Number	8000 RAO-208
Description	8-Channel Analog Output Module

OTHER SPECTRUM PRODUCTS

Industrial PLC I/O Products

Digital	Input: High Density, Isolated, Counters Output: High Density, High Power, Form C
Analog	Combination, Output, Temp.

Operator Interface Products

SOI-120	2x20 LCD
SOI-200	4x20 LCD
SOI-250	4x20 VFD
SOI-260LC	4x20 LCD
SOI-260VF	4x20 VFD

Communications Products

Communication Processor
RS-232 Converters

Industrial Computing Products

FLATpak Series	NEMA Rated
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