

HR Series I/O modules

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SPASO11

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The SPASO11 provides 14 separate analog output signals that can be used to control a process. Each channel has a 10-bit resolution and can be individually programmed. Each output reads back the signal to the field to ensure accurate operation and eliminate the need to calibrate outputs.

Technical data	
Power requirements	+ 5 VDC, $\pm 5\%$ at 250 mA typical +15 VDC, $\pm 5\%$ at 100 mA typical - 15 VDC, $\pm 5\%$ at 90 mA typical + 24 VDC, $\pm 10\%$ at 310 mA typical
Analog input channels	14 independently configured channels
Current	4 to 20 mA
Voltage	1 to 5 VDC
Output load (current)	750 Ω maximum
Output load (voltage)	22 Ω minimum
Ambient temperature	0 °C to 70 °C (32 °F to 158 °F)



SPCIS22 and SPQRS22

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The SPCIS22 and SPQRS22 are the control I/O modules for the HR Series. These two modules are functionally identical, although the SPQRS22 provides approximately ten times faster response. The noise rejection of the SPQRS22 module is lower than that of the SPCIS22. Each I/O channel can be individually programmed.

Technical data	
Power requirements	5 VDC, $\pm 5\%$ at 100 mA typical, 180 mA max. +15 VDC, -2.5%, +5% at 27 mA typical, 35 mA max. -15 VDC, -5%, +2.5% at 23 mA typical, 30 mA max. 24 VDC, $\pm 10\%$ at 46 mA typical, 65 mA max. (from termination unit)
Analog input channels	14 independently configured channels
Digital inputs	3 optically isolated channels
Digital outputs	4 optically isolated, independently configured, open-collector channels
Analog inputs	4 4-20 mA independently configured channels
Analog outputs	2 4-20 mA independently configured channels
Ambient temperature	0 °C to 70 °C (32 °F to 158 °F)