

Highlights

The IISAC01 Analog Control Station (SAC) provides process loop control and monitoring capabilities for a single loop. The analog control station receives and sends information to and from the Harmony controller through the CIO-100 control I/O block, the IMCIS12 control I/O module, or the IMQRS12 quick response module. It includes features not found on earlier digital control stations:

- Additional analog input display with square root option.
- High resolution bar graph displays.
- Five or 40-kilobaud serial link.

Specifications

Property	Characteristic/Value
Displays	3 gas plasma bar graphs (200 segments for process variable and set point at 0.5% resolution, 100 segments for output at 1.0% resolution) 8-character, 14-segment, alphanumeric display
Bypass	Automatic entry or selected from faceplate
Communication	5 or 40 kbaud RS-485 serial link to the controlling module through the termination unit 40 kbaud with IMMFP11 and IMMFP12 modules with firmware revision level E_0 or higher
Size	72 x 144 x 381 mm (2.82 x 5.67 x 15.0 in.)
Mounting	Flush panel mounting
Supply voltage (at the termination device)	21.6 VDC minimum, 27.0 VDC maximum
Power consumption (at the termination device)	540 mA at 24 VDC
Analog output: Current	3 to 21 mA
Load	
Compliance	600 Ω maximum
Inductance	600 mH maximum
Accuracy	2.0% of span at 25°C (77°F)
D/A resolution	8 bits

Property	Characteristic/Value
Analog input:	
Voltage range	+0.75 VDC to +5.25 VDC maximum
Impedance	>10 M Ω
Accuracy	1.5% of span at 25°C (77°F)
A/D resolution	8 bit
Normal mode rejection	75 dB minimum at 60 Hz
Common mode rejection	90 dB minimum at 60 Hz
Common mode voltage	$\pm$ 5 VDC maximum
Electric drive:	
R/L contact	100 mA maximum (sink or source)
M/A signal	100 mA maximum (sink or source)
M/A power	21.6 to 27 VDC
Electromagnetic/radio frequency interference	Do not use communication equipment any closer than 2 meters from the station panel
Ambient temperature	5° to 40°C (41° to 104°F)
Humidity	operating: 20% to 80% (noncondensing) storage: 10% to 95% (noncondensing)
Atmospheric pressure	Sea level to 3 km (1.86 mi)
Air quality	Noncorrosive
Certification	CSA certified for use as process control equipment in an ordinary (nonhazardous) location

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Related Documents

Number	Document Title
WBPEEUD240003??	Harmony Control Input/Output, Data Sheet
WBPEEUD240007??	Harmony Rack Control Input/Output, Data Sheet
WBPEEUI230022??	Analog Control Station Instruction

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