

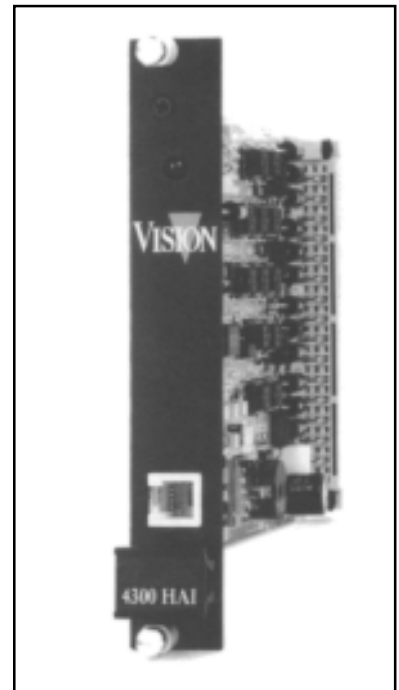
VISION™ Series 4300

DISTRIBUTED

INTELLIGENCE FOR POWER OVER YOUR PROCESS

Model 4300-HAI Analog Input Module

- ▽ **Universal, Configurable Module Accepts Voltage and Current Inputs**
- ▽ **Four High-Level Inputs Per Module**
- ▽ **Full Galvanic Isolation**
- ▽ **16-Bit Resolution**
- ▽ **Loop Power Can Be Supplied for Current Inputs**



The Model 4300-HAI is a universal analog input module which accepts up to four voltage or current inputs over any range within the maximum limits of -11 to $+11$ VDC, or -55 to $+55$ mA.

Further, 24 VDC loop power can be provided for any of these inputs. The 4300-HAI module can also be configured to accept low-voltage (up to 11

VDC) digital inputs, and can be driven directly from 5-volt logic.

The Model 4300-HAI provides 16-bit resolution. Full galvanic isolation exists between input channels, input-to-logic, and input-to-ground.

Self-diagnostics are provided. A local LED indicator clearly distinguishes between an operational, configured

and functioning unit, or a non-functioning unit. Specific internal errors such as bad A/D and out-of-calibration are also detected.

Also refer to the following:
P/N 910000-131
P/N 910000-136

VISION™
Distributed Intelligence

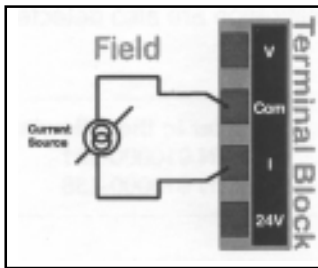
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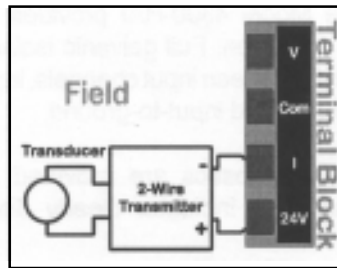
SPECIFICATIONS

Model 4300-HAI

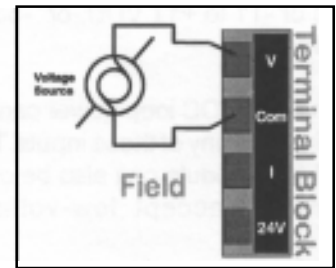
Input Types and Ranges:	Voltage*: -11 to +11 V Current*: -55 to +55 mA *Any range within these maximum limits
Accuracy:	Voltage: 3 mV Current: 30 μ A
Resolution:	Voltage: 1 mV Current: 10 μ A
Samples Rate:	≥ 2 times per sec per input (increases proportionately with fewer active channels)
Input Impedance:	Voltage: 1 Megohm Current: 200 Ω
Intermodule Communication:	Via a dedicated VLSI microprocessor Physical layer is RS-485 @ 78 Kb/sec, Multi-drop
Loop Power:	Non-isolated 24 VDC to power 4-20 or 10-50 mA loops
Common Mode Rejection Rate:	≥ 120 dB, 50/60 Hz
Normal Mode Rejection Rate:	≥ 50 dB, 50/60 Hz
Transient Protection:	Survives ANS/IEEE SWC C37.90
Environmental Protection:	Dust and water resistant, base on enclosure or housing
Operating & Storage Temperature Range:	-40 to 85°C
Humidity Range:	5 to 95% RH; <0.1% effect at 95% @ 40°C
Combined Hysteresis, Temp. and Power Supply Effects:	Voltage: <6 mV Current: <100 μ A
Isolation:	Input to Input: 250 VAC (working voltage) Input to Logic: 1000VAC (hi pot test) Input to Ground: 250 VAC (working voltage)
Power:	24 VDC @ 50 mA (Exclusive of Loop Power)



HAI Channel - Current Input



HAI Channel - 24 VDC Powered Current Input



HAI Channel - Voltage Input

P/N 910000-132
Rev. 1.3/1194-4M

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