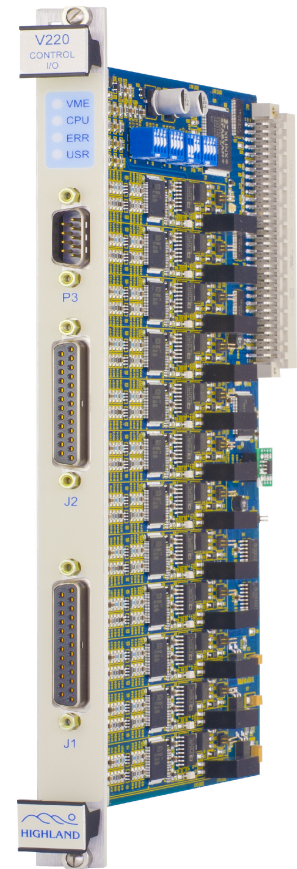




# V220 current loop/process control I/O module

## Features

- 12 independently isolated, independently programmable channels
- Capable of driving and simulating both controllers and transducers, measuring loop voltages and currents, and simulating faults
- Channel functions include:
  - 0 to 24 mA output using internal power source
  - 0 to 32 mA control with external loop power
  - 0 to 32 mA loop current measurement
  - 0 to 18 V voltage output with current measurement
  - Voltage measurement
  - Open circuit
  - Short circuit
- Continuous voltage and current measurement in all modes
- Operates up to 18 volts with internal power, 32 volts with external loop power
- Protected to  $\pm 50$  volts in all modes
- 0.1% basic accuracy
- Separate test connector supports in-crate calibration check
- Clearly labeled dipswitches set VME address; no jumpers, headers, or trimpots
- Optional built-in self-test (BIST)



The V220 is ideal for driving and sensing transducers in computer or PLC-based control systems. It can also be used to simulate complex industrial processes to control systems under development and certification.

All units are equipped with channel test relays and a front-panel D9 test connector, allowing channel performance and calibration to be verified without disconnecting field wiring.

An economical measurement-only version is also available.

## Specifications : V220 current loop/process control I/O module

FUNCTION	12-channel current-loop analog I/O module
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16 Implements 256 16 bit registers at switch selectable addresses in the VME 16 or 24 bit addressing spaces
CHANNELS	12, electrically isolated, independently programmable
CHANNEL MODES	0. Open circuit/voltmeter, -5 to 32 volts range 1. CV/CC out, internal power, 0 to 18 volts, 0 to 24 mA 2. Loop current control, external power, 0 to 32 mA, 48 volts max 3. 0 to 32 mA current measurement, 2 volts max drop 4. Short circuit, 20 $\Omega$ nominal, 200 mA max
RESPONSE TIME	1 ms typical; 100 ms in SLOW mode
PROTECTION	$\pm$ 50 volts differential, $\pm$ 250 volts common-mode
RESOLUTION	16 bits
ACCURACY	$\pm$ 0.1% of range
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS version available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies : +5 volts, 0.5 amp max +12 volts, 750 mA max -12 volts, 750 mA max
CONNECTORS	Two D25 female, each 6 channels One D9 male, test/calibration check
INDICATORS	LEDs indicate VME access, CPU activity, error conditions Additional LED is user programmable
PACKAGING	6U single-wide VME module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec