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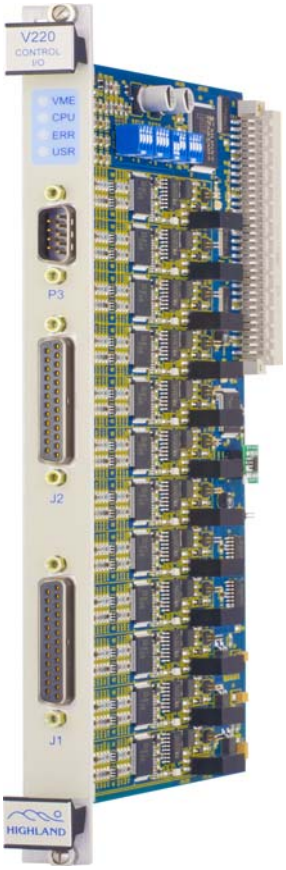
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V220 current loop / process control I / O module

HIGHLAND TECHNOLOGY

Features



- 12 independently isolated, independently programmable channels
- Capable of 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 current control with external loop power
  - 0 to 32 mA loop current measurement
  - 0 to 18 V voltage output with current measurement
  - -5 to +32 volts voltage measurement
  - Open circuit
  - Short circuit
- Voltage and current measurement in all modes
- Operates up to 18 volts with internal power, 48 volts with external loop power
- Protected to ± 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.

650 Potrero Ave San Francisco, CA www.HighlandTechnology.com tel: 415 551-1700 fax: 415 551-5129

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 Ω nominal, 200 mA max
RESPONSE TIME	1 ms typical; 100 ms in SLOW mode
PROTECTION	± 50 volts differential, ± 250 volts common-mode
RESOLUTION	16 bits
ACCURACY	± 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

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