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HIGHLAND TECHNOLOGY

V380 strain gauge / weighing module

Features

- Excites and measures up to eight strain gauge load cells
- Includes smart tare, calibration, and weigh functions
- Onboard 32-bit processor supports digital filtering, triggered weighing, and custom computations
- 16-bit (65536 count) resolution after tare compensation
- Clean, logical VME bus interface is well suited to PLC-based weighing applications



The V380 is a VME/VXI compatible eight-channel strain-gauge signal conditioner which is optimized for load-cell weighing applications. The module includes tare (zero reference), DSP-based high-order filtering, averaging, triggered weighing, and other functions not commonly available in conventional strain-gauge signal conditioners. Filtering and averaging are programmable with fine granularity to allow precise optimization of high-speed weighing applications.

All module functions are programmable; except for the VME-bus address switch, the module has no jumpers, switches, or trimpots. All parameters, tare values, and calibration factors are retained in nonvolatile memory.

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

Specifications : V380 strain gauge/weighing module

FUNCTION	8-channel load cell module
DEVICE TYPE	Register-based slave: A16:D16:D08(EO) 512-byte data block in bus A16 address range (VME short I/O space) Bus address is set by onboard dipswitch
CHANNELS	8 load cells
EXCITATION	Onboard remote-sensed bridge excitation source, 10-volt standard; 40mA max per-channel load
INPUTS	Eight differential inputs CMRR better than 100dB Input impedance is 60 MΩ typical Maximum input ±50 mV (equivalent to 5 mV/V excitation)
RESOLUTION	16 bits (65536 counts) MAX after tare and calibration One 24-bit ADC per channel, 32-bit after filtering, 92.132 pV per LSB
TARE	On-demand, per-channel subtraction of reference weight up to full-scale signal range
FILTERING	Programmable digital filtering (Bessel in 0.1 sec, 0.2 sec, and 0.4 sec risetime) and averaging (last N samples)
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	One year
POWER	Standard VME supplies: +5 V: 1.5 A max +12 V: 0.6 A -12 V: 0.2 A
CONNECTORS	One front-panel 25-pin D-sub female
INDICATORS	Three LEDs indicate microprocessor heartbeat, VME access, and pass/fail status
PACKAGING	6U single-wide VME module
CONFORMANCE	ANSI/VITA 1-1994 (R2002) VMEbus spec
OPTIONS	Other excitations, signal ranges, filtering available

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