Measurement & Simulation

HIGHLAND TECHNOLOGY

P330 capacitive level sensor simulator

- Four independent, isolated channels of simulated capacitive fuel/oil/fluid level sensor simulation
- Simulates both the resistive and conductive components of coaxial level sensors
- Simulates sensor cable open/shorted faults
- Measures and reports excitation amplitudes and frequencies
- Three ranges of 3-wire capacitance and three ranges of resistance/conductance per channel
- 16 bit capacitance and conductance resolution

P470 thermocouple simulator

- Intended for system-level testing of process control systems, FADEC engine controllers, and other critical systems
- Eight independent, isolated channels can simulate all common thermocouple types or generate direct millivolt outputs
- Includes thermocouple fault simulation
- Two precision RTD signal conditioners for external reference junction temperature sensing, plus one on-board RTD reference junction sensor

T680 ethernet time interval counter

- 5 channel time-interval counter and time stamper
- Each channel can snapshot the time of the rising edge of one electrical input, to 12.2 picosecond resolution with 48 bit range
- Custom versions can include DRAM and perform internal histogramming or accumulate array data for applications like fluorescent decay and 2D delay line imaging

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Measurement & Simulation

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P545 synchro / LVDT simulation / acquisition module

- DSP-based sinewave processor intended for both simulation and acquisition of LVDTs, RVDTs, synchros, and resolvers
- 12 transformer-isolated AC sine wave generator/acquisition channels
- Each channel can be a signal source or a measurement input
- Capable of simulating and measuring of a wide range of inductive transducers, using internal or external excitation

P620 isolated resistance simulator

- Standalone 6-channel RTD and resistance simulator
- Intended for system-level testing of process control systems, FADEC engine controllers, and other critical systems
- Each independent, isolated channel can simulate common RTD types and six decades of resistance range, including true 4-wire resistance simulation
- Channels can operate from millivolts up to 10V and 20mA

Commitment to VME

Highland has maintained a consistent commitment to VME as an open, robust, and cost-effective platform for high channel count control, measurement, and simulation systems.

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