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HIGHLAND TECHNOLOGY

V545 LVDT/synchro simulation module

Features



- 24 transformer-isolated AC sinewave generator/acquisition channels
- Generalized ADC-DAC-DSP architecture
- Programmable functions include:
  - LVDT/RVDT acquisition, with internal or external excitation
  - LVDT/RVDT simulation, with internal or external excitation
  - Synchro/resolver acquisition, with internal or external excitation
  - Synchro/resolver simulation, with internal or external excitation
  - Poly-phase sine wave generation from 250 HZ to 20 KHz
  - True RMS voltage measurement
  - Synchronous detection
  - Frequency measurement
- Realtime voltage and frequency measurement, all signals in all modes
- 16 bit ADC and DAC resolution
- Internal ARM9 CPU performs macro functions
- Generalized function block capability
- Clearly labeled dipswitches set VME address; no jumpers, headers, or trimpots

The V545 is a generalized- DSP-based sinewave processor intended for both simulation and acquisition of LVDTs, RVDTs, synchros, and resolvers. 24 generalized, isolated channels are provided. Each channel can be a signal source or a measurement input. Users can program any desired relationship between input and output channels, allowing simulation and measurement of a wide range of inductive transducers, using internal or external excitation.

Per-channel features include true RMS AC measurement, frequency measurement, programmable phase shift, and a versatile phase-sensitive detector.

Plugin transformers allow optional voltage input/output ranges. Software transformer ID is provided.

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

Specifications : V545 LVDT/synchro simulation module

FUNCTION	24-channel LVDT/synchro simulator
DEVICE TYPE	16-bit VME register-based slave: A24:A16:D16; Implements 1024 16-bit registers at switch selectable addresses in the VME 16 or 24 bit addressing spaces
I/O CHANNELS	24, transformer isolated, programmable input/output Nominal 100 ohm output impedance with 1:1 transformers
RANGES	± 10.24 volts peak using 1:1 transformers ± 54.27 volts peak using 5.3:1 transformers
RESOLUTION	16 bits
SAMPLE RATE	250 ksps/channel
FREQUENCY RANGE	250 Hz to 20 KHz
OPERATING TEMPERATURE	0 to 60°C; extended MIL/COTS ranges available
CALIBRATION INTERVAL	Two years
POWER	Standard VME supplies: + 5 volts, 500 mA max +12 volts, 2 A max - 12 volts, 2 A max
CONNECTORS	Two female D25 connectors One female D9 connector
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; does not support byte writes

Accuracy

VOLTAGE GENERATION	± 0.50% full scale at 300 Hz to 500 Hz
RMS VOLTAGE MEASUREMENT	± 1% full scale at 300 Hz to 500 Hz
FREQUENCY MEASUREMENT	0.05%
FREQUENCY GENERATION	0.05%
SYNCHRO/RESOLVER ACQUISITION	± 0.2 degrees at 300 Hz to 500 Hz, with dash-6 transformers
SYNCHRO/RESOLVER SIMULATION	± 0.2 degrees at 300 Hz to 500 Hz, with dash-6 transformers

Logic I/O

INPUTS	Four TTL/CMOS/contact inputs on D9 connector Pullup 1k-Ohm to 3.3V 0/5V Max
OUTPUTS	Two open-drain outputs on D9 connector 100mA / 24V / 0.35W max

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