

The NTC-6000 **Quik-Cal**<sup>™</sup> LVDT Signal Conditioner from NewTek Sensor Solutions provides an intuitive AC-LVDT setup process. Calibration is accomplished with front panel null indicators and pushbuttons to set Zero and Full Scale output positions. The NTC-6000 offers a choice of excitation frequencies, multiple analog output types, accepts a wide dynamic range of LVDT outputs, indicates LVDT connection failures, and incorporates a 2wire RS-485 digital communications port. Along with color-coded plug-in screw terminal connectors and a 2 year warranty, these are just a few of the many advanced features that make NewTek Sensor Solutions NTC-6000 module an extremely versatile smart LVDT signal conditioner.

## **Features**

- Quick and easy setup with front panel push buttons and LED indicators
- Selectable excitation frequency, analog outputs and bandwidth
- Automatic excitation synchronization for multiple unit systems
- Self-diagnostics for LVDT failure. disconnect or short circuit
- Digital communications via RS-485 2-wire multi-drop bus
- Hot swapability --- setup can be saved and reloaded via RS-485 port
- Cybersecurity lockout and tamper detect

## **Applications**

- Factory automation
- Steam Valve Position Feedback
- Governor and Throttle Valves
- Materials testing
- Packaging equipment
- Turbine Control Systems
- Dimensional Gaging

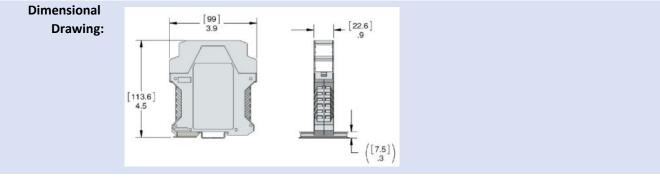


# **Specifications**

Power:	Input Voltage	9-30 VDC, 90 mA max @ 24 VDC
Excitation:	Primary Voltage	3 Vrms (nominal)
	Primary Current	30 mA max
	Primary Impedance	90Ω min
	Primary Frequency	1.5kHz / 3 kHz / 5 KHz / 10 kHz (selectable)

## **Specifications (continued)**

Itage Output rrent Output op resistance equency Response w Pass Filter Itput Voltage Ripple Itput Current Ripple Itput Non-Linearity for Flag Output	0-10 VDC / 0-5 VDC / 0.5-4.5 VDC / ±5 VDC / ±10 VDC (selectable) 4 - 20 mADC 1KΩ Max 500Hz Max (10KHz Exitation) 1Hz / 10Hz / 100Hz / Full (selectable) 1 mV rms Max (no Filter) 10 μA rms max (no Filter) ±0.1% of FSO (typical) Open collector 50 mA, 30 V DC max.
	· ·
ef. Of Thermal Sensitivity perating Temperature Ra closure 1C Compliance	•
L SYNC I/O ERROR FLAG PRI-1 PRI-2 SHIELD SEC_CT SEC-1 SEC-1 SEC-2 VDC OUT 0 n.c. 1 OUT RTN 2 IDC OUT 3 RS-485 B 4 RS-485 A 5 - VIN	Synchronization Master/Slave Input/Output Error Flag Output Primary Excitation to LVDT Primary Excitation to LVDT Optional cable Shield connection (GND) Optional Secondary CT conn. (n.c.) Secondary signal from LVDT Secondary signal from LVDT Output Voltage No Connection VOUT / IOUT Return (GND) Output Current RS-485 Data + RS-485 Data - Supply Voltage Return (GND)
	erating Temperature Ra closure IC Compliance IC Compliance ERROR FLAG PRI-1 PRI-2 SHIELD SEC_CT SEC-1 SEC-1 SEC-2 OVDC OUT 0 n.c. 1 OUT RTN 2 IDC OUT 3 RS-485 B 4 RS-485 A



#### Warranty

The NewTek Sensor Solutions NTC-6000 FastCal LVDT Signal Conditioner is warrantied against defective materials and workmanship for a period of two years from the date of delivery to the original purchaser. NewTek Sensor Solutions accepts no liability for damages in the misuse of our products.



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