NEWTEK Sensor Solutions

Providing Custom Sensor Solutions

NTC-6000 Quick Start Guide

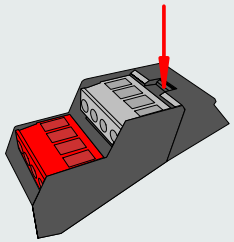
Signal Conditioner for LVDT / RVDT & LVRT Half-Bridge

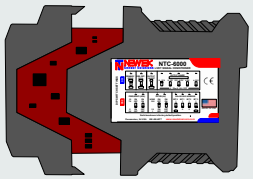
CE

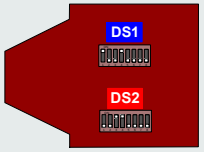
MADE IN USA

Choose Electrical Options

1. Remove exterior cover to access the DIP switches by depressing the tabs on top and bottom and removing the cover.







2. Adjust DIP switches to the preferred output

DIP SWITCH SETTINGS

DS1

1	2	3	4	5	6	7	8
PRIMARY DRIVE	ERR. DET. DISA.	OUTPUT INVERT	OUTPUT RANGE (SWITCH ONLY ONE ON)				
HIGH	DISA	INV	0 - 10V	0 - 5V	0.5 - 4.5V	± 5V	± 10V
LOW	NORM	NORM	4 - 20mA - ALL OFF				

DS2

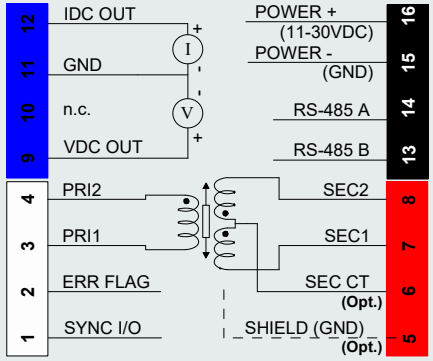
1	2	3	4	5	6	7	8
FREQUENCY (KHz)		FILTER (Hz)		RS-485 BUS ADDRESS			
10	ON / ON	NONE	ON / ON	BIT 0	BIT 1	BIT 2	BIT 3
7.5	OFF / ON	100	OFF / ON	1	1	1	1
5	ON / OFF	10	ON / OFF	0 (LSB)	0	0	0 (MSB)
2.5	OFF / OFF	1	OFF / OFF				

Switches shown in factory default position.

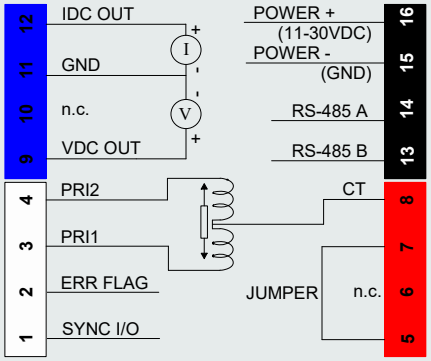
3. After DIP switch selections are made, re-assemble the NTC-6000 cover

Make Your Connections

LVDT / RVDT Hookup:

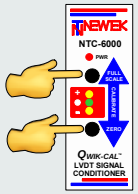


LVRT Half Bridge Hookup:



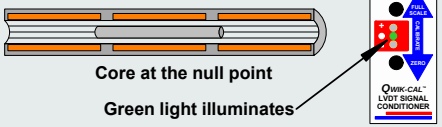
Calibrate The NTC-6000 to the LVDT

1. Press and hold both buttons for 3 seconds. The red PWR LED will begin blinking.



Hold for 3 Seconds

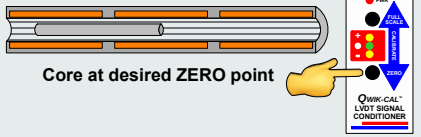
2. Move the LVDT core to NULL position by observing the + / N / - LEDs. T When the Green N light illuminates, this is the center of the LVDTs measuring range.



Core at the null point

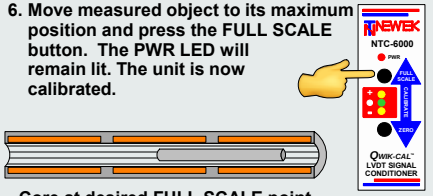
Green light illuminates

3. Attach the measured object to the core. For best accuracy, the center of the object's range of motion aligns with the NULL position.
4. Move measured object to its minimum position and press the ZERO button setting the point of lowest output.



Core at desired ZERO point

5. Wait for + / N / - LEDs to stop blinking.
6. Move measured object to its maximum position and press the FULL SCALE button. The PWR LED will remain lit. The unit is now calibrated.



Core at desired FULL SCALE point