

1. CALIBRATION OF LVDT TRANSDUCER FOR DISPLACEMENT MEASUREMENT

Aim: To determine the characteristics of LVDT (linear variable differential transformer).

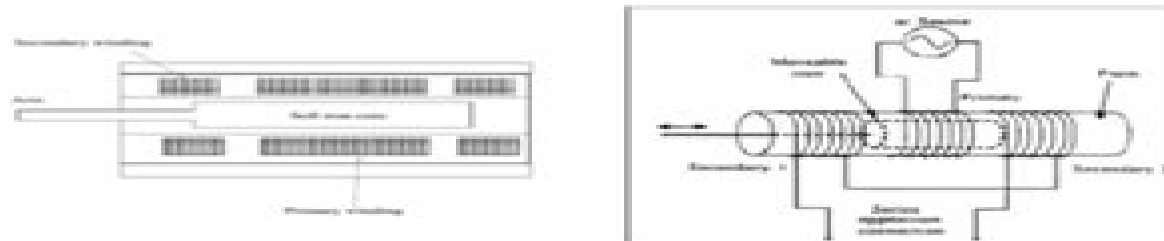
Apparatus required: LVDT, Digital displacement indicator, Calibration jig (with micrometer).

Procedure:

1. Plug power chord to AC mains 230 V, 50 Hz and switch on the instrument.
2. Place the READ/CAL switch at READ position.
3. Balance the amplifier with the help of zero knob so that display should read zero (00.00) without connecting the LVDT to instrument.
4. Replace the READ/CAL switch at CAL position.
5. Adjust the calibration point by rotating CAL knob so display should read 10.00 i.e., maximum calibration range.
6. Again keep the READ/CAL switch at READ position and connect the LVDT cable to instrument.
7. Make mechanical zero by rotating the micrometer. Display will read (00.00) this is null balancing.
8. Give displacement with micrometer and observe the digital readings.
9. Plot the graph of micrometer reading v/s digital reading.

THEORY : LVDT (LINEAR VARIABLE DIFFERENTIAL TRANSFORMER)

The most widely used inductive transducer to translate the linear motion into electrical signals is the linear variable differential transformer (LVDT). The basic construction of LVDT is shown in fig:



The transformer consists of a single primary P and two secondary windings S1 and S2 wound on a cylindrical former. The secondary windings have equal number of turns and are identically placed on either side. A moveable soft iron core is placed inside the transformer. The displacement to be measured is applied to the arm attached to the soft iron core. In practice the arm is made of highly permeability, nickel iron which is hydrogen annealed.

This gives low harmonics low null voltage and high sensitivity. This is slotted longitudinally to reduce eddy current losses. The assembly is placed in stainless steel

Lvdt Laboratorey Manual

Jiyuan Zhang



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