



⇒ It is robust absolute linear position displacement transducer inherently frictionless when properly used. It has a virtually infinite cycle life. It does not contain any electronics.

It can be designed to operate at cryogenic temp or up to  $1200^{\circ}\text{F}$  in harsh environment under high vibration and shock level.

LVDT consist of one primary winding  $P_1$  and two secondary winding  $S_1$  and  $S_2$  which are placed in the form of winding on either side of the primary mounted on the cylindrical magnetic cores. No air gaps are equal in both secondary coils, winding of both secondary coils are connected with each other in ~~pos~~ opposite phase.

2.

Working :-

The working principle of LVDT as shown below.