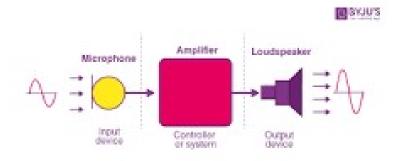
TRANSDUCER

A device that converts variations in a physical quantity, such as pressure or brightness, into an electrical signal, or vice versa.

A transducer is an electronic device that converts energy from one form to another. The process of converting energy from one form to another is known as transduction.

Ex: of transducers include loudspeakers, microphones, thermometers and LEDs.



LINEAR TRANSDUCER

Linear transducers measure linear displacement or movement along a single axis in any direction. They do this by converting the movement into an electrical signal which is proportional to the displacement so that it can be processed by various devices.

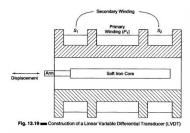
Linear Transducers are available in different types, each type is better suited to a different application or environment. Some linear transducers have different certifications making them well suited to hazardous areas or intrinsically safe applications. They are also available in various sizes to suit long-range applications or applications where space is restricted.

Linear Transducer Types

The different types of linear transducers we have available are;

Potentiometer – we offer our range of potentiometers which are a type of linear transducer. They use an internal resistive track and wipers to monitor the position of an object.

LVDT – another non-contact type of linear transducer,



LVDT is an acronym for Linear Variable Differential Transformer. It is a common type of electromechanical transducer that can convert the rectilinear motion of an object to which it is coupled mechanically into a corresponding electrical signal.

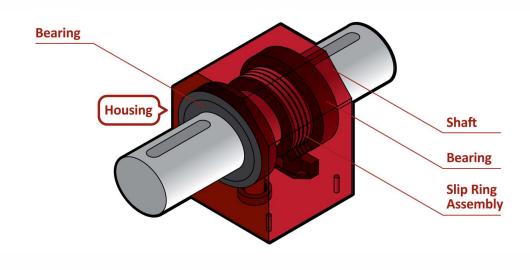
Cable Extension Transducer – an alternative solution for linear displacement, a cable extension transducer uses a flexible cable. These have a greater stroke-to-length ratio making them well suited to long-range applications.

Linear Transducer Applications

Linear transducers are very popular devices and are used throughout many industries. Some of these include;

- Motorsport applications
- Industrial applications
- Agricultural vehicles
- HVAC
- Hazardous area applications
- Automotive applications
- Robotics
- Medical applications

ROTARY TRANSDUCERS



What are rotary transducers?

A rotary torque transducer is a device used for measuring the torque on a rotating system such as the tightening torque applied by continuous and impulse power tools. Torque transducers are a small but incredibly vital piece of kit for a whole host of industries.

How do Rotary transducers work?

A rotary torquemeter or torque transducer measures torque in a rotating shaft. Our rotary transducers sense torque with highprecision strain gages. Mounted on or embedded in the rotating element, these respond to shear forces with changing electrical resistance.