

Sensors are used to take measurements, the measurement will be processed and an output will be given. This will then cause something to change or move. There are many different types of sensors, the main categories are shown below;

## Position Sensors

Position sensors can be split into further subcategories including, contacting, non-contacting, rotary and linear. Each different type of position sensor uses a different type of technology.

## Pressure Sensors

Pressure sensors are often split into two categories; Pressure transducers & pressure switches. Pressure transducers give accurate feedback on real-time pressure & pressure switches have a set limit which causes them to switch.

## Temperature Sensors

Temperature sensors are used to measure and monitor temperature. They come in many different shapes, sizes and types; thermistors, probes, thermocouples, RTDs and temperature transducers are some examples.

## Load Cells & Force Sensors

Force sensors measure various types of force, the main one being weight. They are used in all types of scales; from bathroom to counting scales, industrial scales, truck scales, hopper scales & everything in between.

## Vibration Sensors

Vibration sensors measure how much frequency of vibration an object or machine has in it. This can help detect issues or potential repairs. There are many types including, proximity, portable, seismic, switches and shakers.

## Piezo Sensors

Piezo sensors are commonly used within the medical industry. They require no external voltage or current source, they are able to generate an output signal from the strain applied.

## Fluid Property Sensors

Fluid property sensors will measure the physical properties of a fluid, including the temperature, dielectric constant, density and viscosity.

## Humidity Sensors

Humidity sensors can be capacitive, resistive and thermal. They measure the humidity of an environment by detecting changes that alter electrical currents or temperature in the environment.

## Strain Gauges

A strain gauge is a type of electrical sensor used to measure force or strain. The resistance of a strain gauge changes when force is applied and this change will give a different electrical output.

## Photo Optic Sensors

Photo optic sensors are used to detect changes in surface conditions, & other items through a variety of optical properties by using a light transmitter, often infrared, & a photoelectric receiver.

## Flow & Level Switches

Flow and Level switches are used to measure either dry materials or a liquid with millivolt, current or relay outputs. This ensures things do not overflow or drain.

**Contact us for your  
sensor requirements:**



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