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force of the pressure and generates an output signal that corresponds to the magnitude of the force being exerted a pressure transducer transforms the detected force into a continuous voltage output v while a pressure transmitter converts the detected force into a current output ma [[2023 [10] 26] a pressure sensor is an instrumental device used to measure the pressure of gases or liquids they are often referred to as pressure transducers pressure transmitters pressure senders pressure indicators piezometers and \(\pi\)\(\pi\ include all sensors transducers and elements that produce an electrical signal proportional to pressure or changes in pressure the device reads the changes in pressure and then relays this data to recorders controllers or switches there are several types of pressure sensor devices 2023[6]6 this table shows the ranges of vacuums and pressure measurement that various sensor types are capable of detecting and the types of internal references vacuum or atmospheric pressure used if any $\square \square \square 2024 \square 1 \square 16 \square$ a pressure sensor is a device that measures pressure and converts it into a readable output often in the form of an electrical signal it works by detecting the physical force exerted on it and then translating that force into a \(\precip \extra{1} \) 2023\(\precip \) 3 □11□ gauge pressure absolute pressure minus atmospheric pressure differential pressure pressure difference between two locations there are various types of pressure sensors that are available in the market today for use in industry each functions best in a certain type of situation $\square\square\square 2023\square8\square2\square$ at its core a pressure sensor measures the force exerted by a gas or liquid on a surface it converts this force into an electrical signal that can be further processed analysed or displayed they are sometimes called force sensors or force transducers as they accurately gauge the force applied by a fluid or gas [[[] 2023[[2][20]]] as crucial devices in a wide range of industries and applications pressure sensors are used to measure the pressure of gases or liquids and can be found in everything from medical equipment and automotive systems to hvac \(\pi\)\(\pi\) 2023\(\pi\)5\(\pi\)17\(\pi\) pressure sensors are devices used to measure pressure levels in different environments from industrial processes to medical equipment these sensors are designed to detect pressure changes and convert them into a readable output providing valuable data for various applications

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