

*MADHAV INSTITUE OF TECHNOLOGY AND SCIENCE, GWALIOR*

**SENSOR TECHNOLOGY**

ASSIGNMENT 3



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**DIFFERENTIATE BETWEEN ABSOLUTE SENSOR AND RELATIVE SENSOR**.

**RELATIVE SENSOR**

A relative sensor produces a signal that relates to some special case.

Examples of relative sensors:

1.*Thermocouple*- It produces electrical voltage, and it is a function of temperature gradient and cannot be directly related to any temperature without base line.

2. *Relative pressure sensor*- It produces signal with respect to a selected baseline that is not zero pressure.

**ABSOLUTE SENSOR**

An absolute sensor detects a stimulus in reference to an absolute physical scale that is independent of the measurement conditions.

Examples of absolute sensors:   
1. *Thermistor*- electrical resistance directly relates to absolute temperature scale of kelvin.

2. *Absolute pressure sensor*- produces signal with reference to vacuum i.e. and absolute zero on pressure scale.