Lemporature Sonson 9t is a device, used to measure the tem perature thorough an electrical organist requires a Mermo couple vor RTD (Resistance Temperature Detectors). within a me have pullimental Working The measurement of the temperature sensor is about the hotness or coolness of an object. The working base of the sensory is the voltage hat read across the diode 9f the voltage in oreares, then the temperature rises and here is a voltage drop ketween The transistor terminals of base & emitter, They are ne conded by the sengors. If me différence in voltage is amplified. The analogue signal is generated by the device and it is directly proportional to the device

Types of T.S. There are many different by per of T.s.

Thommocouple Sinson A temperature sensor is me instrumentation A hermocouple is a temperature-measuring 1H device consisting of two dissimilar conductors No. that contact each other at one or more points. It produces a voltage when he temperature of one of the points differes from the greference temperature at other parts of me circuits.

PMMc instrument. Kot junction (old junction · Thermistor Sensor. This type of sensors is used mostly in the human thermometers. If there is a change in The temperature, then the electrical current or resistance also changes. The Menmistor is prepared by using the semiconductor

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materials with a resistivity which is especially sensitive to temperature. The resistance of a theormister decreases with increasing temperature so that when the temperature changes, the resistance change is predictable.

Resistance Temperature Detector
These are the temperature sensors with a strict resistor that changes the resistive value simultaneously with temperature changes. The RTDs are used in a wide temperature range from -5000 to 5000 c for thin film and for the wire wound variety the range is from the +20000 to 85000. The thin layer of platinum on a substrate is present on the thin film RTD element. A new pattern is created which provide the electrical circuit and it is trimmed to give a specific resistance.

Thermometer

It is a device which is used to measure the temperature of any glass solids, or liquids. In this type or alcohol is used in a tube whose volume is changed by

changing the temperature. Its volume is directly proportional to temperature. · IR Temperature Sensor These are an electronic and non-contacting sensor which have a certain characteristic such that it can de emits the The radiation. Two types of IRT-s used in market are IRs and Quantum IRS. It detects the Surface temperature by emitting radiations. Thus its cost depends on its working capabilities means its accuracy level depends upon its cost in other words low cost - low accuracy level and high cost-high occuracy level. · Semicon ductor based Sensor / ICs T.S. It operate with reverse bias, have a small capacitance and a low leakage curvent. They are formed on thin waters of silizon. They are compad, produce linear outputs, and have a small range of temperature. They also have low cost and are accurate following calibration Types:- 1 Voltage output te 2) arrient Output

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3) Digital output me la contraction de la contra
uz Roxich
5) Sim ale 1: 1
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PRICATIONS BY ILD MAINT BY MAINTENANCE IN
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measuring the motor winding temp.,  bearing temp., brushes temperature.
bearing temp. brushes temperature.
- search reference per than pel mudicipal mile and end
These are used in electric caples for mountain
Ine cable internal temperature.
- Company of the property of t
engine oil temps engine bearing temp.
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- 47 30 rubber, plastic, biomedical industriles.
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