ICING SENSOR

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ICE DETECTION SENSOR FOR GAS TURBINE ENTRY

Icing Detection
Precise Temperature and Humidity Measurement
Easy Setup
Severe Weather Resistance

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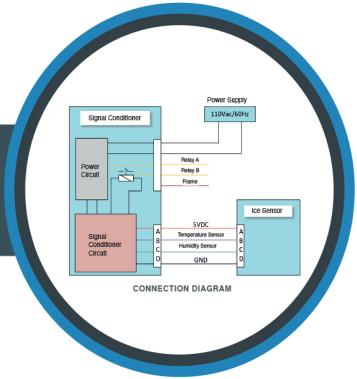
ICING SENSOR

Ice Detection Sensor for Gas Turbine Entry



CONNECTION DIAGRAM

In order to prevent the cold air entering the gas turbines from affecting the turbines, the icing detection sensor located at the entrance of the turbine provides icing detection by measuring the temperature and humidity ratio of the air entering the turbines.
The ice sensor works with 5VDC power supply. Lower or higher voltages may disrupt the linearity of the sensors and cause the sensors to measure incorrectly. No more than 5.8VDC voltage should be applied to the inputs of the ice sensor.

Parameter	Unit
Settling Time	70ms
Accuracy	±3.5 %RH
Operating Humidity Range	0 – 100 %RH
Operating Temperature Range	-40°C ~ 85 °C
Supply Voltage	5VDC

Table 1: Humidity Sensor Parameters

Parameter	Unit
Resistance	10,000 Ohm
Resistance Tolerance	±20%
Operating Temperature Range	60°C ~ 300°C
Beta	3669
Settling Time (Air)	22s

Table 2: Temperature Sensor Parameters

The ice sensor consists of a chamber that is not completely closed so that it can measure the temperature and humidity in the environment, humidity, temperature sensor and signal amplifier circuit. This chamber can easily measure the temperature and humidity in the environment while protecting the sensors from external factors.The output of the humidity sensor is regulated by the signal amplifier circuit so that it can be processed in the signal conditioner. The signal processed in this circuit is sent to the output of the ice sensor.

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