BURNS ENGINEERING

Application Note

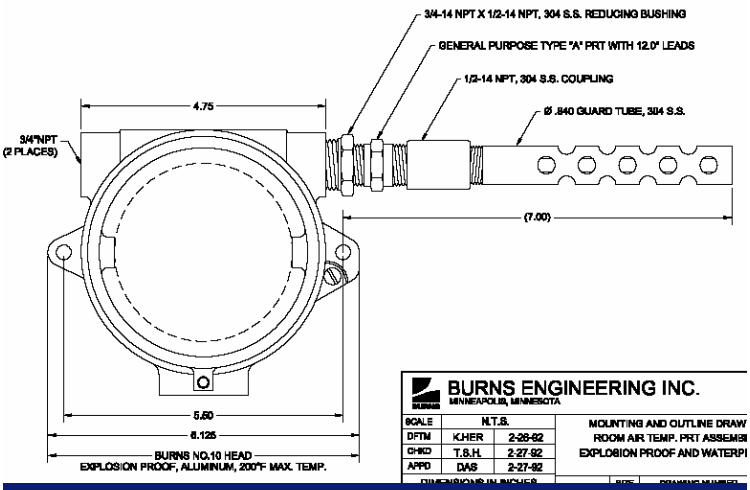
A080714

Heavy Duty Air Temperature Sensor for All Kinds of Hazardous Environments

APPLICATION

Need to monitor air temperature in a production facility where occasional dust and exposure to mechanical damage from product transfer traffic are present.

An accurate air temperature measurement was required to monitor for energy efficiency and to maintain product quality during storage and manufacture.



Heavy Duty Air Temperature

CHALLENGE

A measurement at several locations was required with a variety of mounting configurations. Sensors had to be located on columns or mounted on piping at several locations throughout the facility and some required a local indication of temperature. Hazards included the occasional bump from a forklift and dust.

SOLUTION

Burns Model 14815 is designed for those air temperature applications that require an instrument with hazardous area approval and / or where extreme durability is needed. The connection head has two mounting tabs that can be used to attach the assembly to a wall, post, or with the addition of an optional pipe clamp adaptor, any pipe can be a potential mounting location. The perforated guard tube made from stainless steel pipe provides protection for the sensing element from bumps and bruises such as may be initiated by a forklift or other mobile equipment. A sun shield can be substituted for outdoor locations where other shade is not available. The sun shield minimizes the radiation heating by providing some shade. Rain can have an evaporative cooling effect and snow or ice accumulations can slow the time response and cause a large error. Other options are a 4 - 20 mA transmitter, loop powered or battery powered LED indicator.

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Main Header

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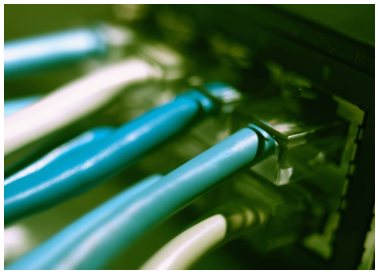

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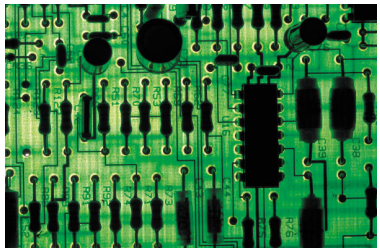

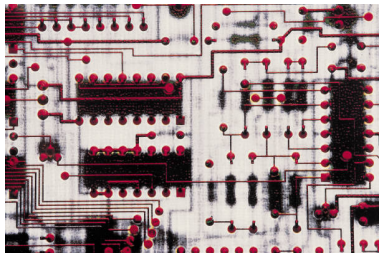

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TREYRESEARCH

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