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TMT 162 Temperature Measurement in Incinerators- Chemical

A Type R and B thermocouple is connected to a TMT 162 transmitter used for accuracy and reliability in high temperature measurement

Typical chemical plant

TMT 162

TMT 162 mounted outside incinerator

Product Information
In an incinerator, there is a need for optimized temperature measurement in order to maintain high production. The use of the TMT 162 temperature transmitter ensures maximum performance at a lower cost to the customer.

Customer Profile
A major supplier of PVC resin requires a wider range of temperature measurement due to higher productivity needs.

Value Proposition
- ☒ Quality
- ☐ Revenue
- ☒ Cost
- ☒ Efficiency
- ☐ Risk
- ☐ Soft Facts

Application description
In order to increase productivity and decrease cost, the customer needs an incinerator to burn at a much higher rate. The previous measured temperatures reached 1300°F and was measured using a Type R thermocouple. Now, temperatures reach up to 3000°F and the Type R sensor is not reliable enough at the higher temperatures.

Application challenges:
Customer wanted a single sensor insertion because there is only one nozzle into the incinerator, and a second sensor plus transmitter and wiring was not wanted.

Instrument used:
Endress+Hauser provided a dual thermocouple with Type R and Type B sensing, allowing a single measuring source to the TMT 162 transmitter. A signal is sent from the TMT 162 to the PLC in the control room.

Measurement results:
The TMT 162 with dual sensor input is providing accurate and dependable temperature measurement. The customer did not need a second insertion, transmitter, or wiring into the control system, lowering cost of temperature measurement.

Instrument description:
The Type R provides measurement from 50° to 1300°F and the Type B measures from 1300° to 3000°F. The TMT 162 has an internal switch feature that allows the dual thermocouple to be wired as sensor 1 (for the type R) and sensor 2 (for the Type B). When the process temperature is below 1300°F, sensor 1 is used for output. When above 1300°F, then sensor 2 is used for output.

For more information contact:
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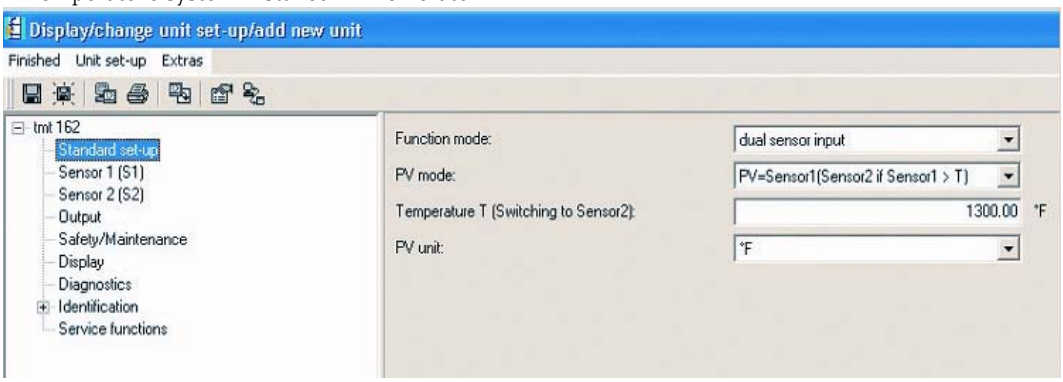
Temperature system installed in incinerator



ReadWin® 2000 display for switch point setup

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