



# Technical Brief

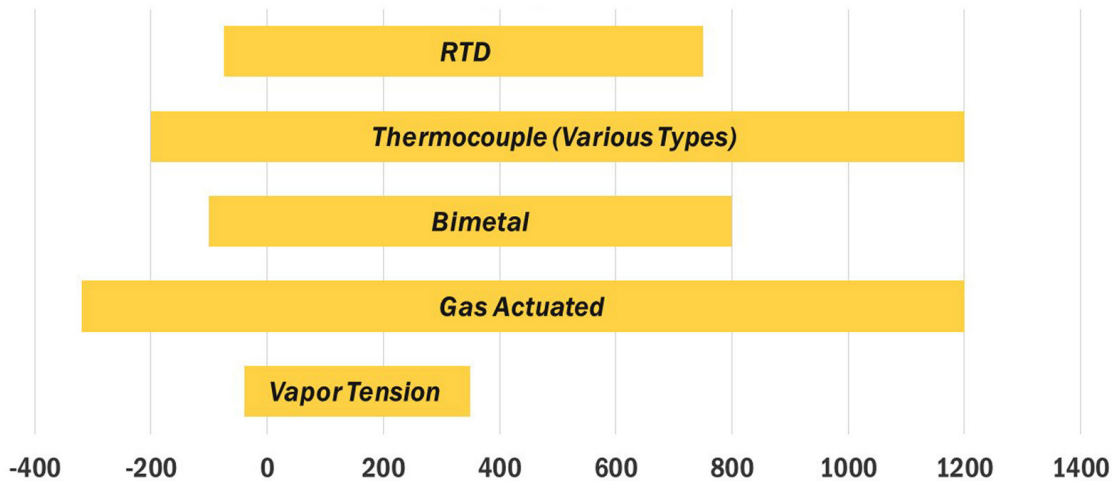
TEMPERATURE

## How does temperature range affect the type of thermometer you choose?

When choosing the type of thermometer for your application, one of the primary considerations will be temperature range. What is the expected range you will need to measure?

Once this is defined, you can narrow down your choices. The chart below shows the optimal operating range for the most common types of industrial thermometers.

**Industrial Thermometer Temperature Range Capabilities**  
(Degrees F)



Note: This chart is intended to show the general capability of each thermometer type. The thermometers capability can be made up of several narrower ranges.  
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Each type of thermometer excels in a particular temperature range. While most devices tend to be less accurate at the edges of their range, manufacturers of high quality thermometers will ensure their devices operate both accurately and consistently throughout their rated range.

Most thermometer types can have several ranges. Tel-Tru Industrial Bimetal Thermometers are offered in numerous ranges, each providing optimal performance for a specific application.

When choosing a thermometer, make sure your anticipated measurement range falls within the center of the range of the thermometer. This will provide you some margin, should there be a condition when you are measuring outside the bracket of calibration for your thermometer.

After you've narrowed your thermometer choices to options that work in your required range, you can make decisions based on other requirements such as:

- Connection type
- Environmental conditions
- Readability
- Remote connectivity
- Mounting considerations

For more information about what type of thermometer is best for your application, contact our technical experts at 585.232.1440 or visit [www.teltru.com](http://www.teltru.com).

