

Core Temperature Measurement Information Sheet

TLC 730



Infrared measurement devices are used to get a quick check of temperatures, for instance during incoming goods inspection. If a temperature measurement is not within tolerance, it is best to make a more accurate core temperature measurement using a penetration probe. This is especially the case when measuring through plastic or cardboard packing material. In case there is a difference between core and infrared measurements, please consider the core temperature measurement as more reliable.

To obtain an optimal measurement result, please mind the following:

- The temperature sensor is in the tip of the probe. This is where the temperature is measured. Take care to ensure that the probe tip is inside the measured good, and not pushed all the way through. For a proper core temperature measurement, at least 1/3 of the probe needle has to be pushed into the measured goods. If a small item is being measured, the measurement should be taken from the side, if possible.
- There needs to be a tight fit between the measured goods and the probe. Any bored hole (e.g. with frozen food) needs to be the same size as the diameter of the probe needle. If there is a gap between the probe and the measured goods, i.e. by an air pocket, the measurement result will be incorrect.
- For best results, the temperature distribution should be even throughout the measured goods. When measuring liquids such as soups, stir before measuring to ensure an accurate measurement.
- Wait until the temperature displayed on the unit is stable before completing the measurement. Don't forget to document your measurement, including date, time, measured item, and measurement value.
- It is absolutely necessary to clean and disinfect the probe before each measurement to eliminate the risk of cross-contamination.

Incorrect - 1/3 of the probe is not in the measured good



Correct



Incorrect - the probe tip may not stick out of the measured good



Correct



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