Food and Pharmaceutical



Process Monitoring and HACCP Using Infrared Thermometers

Temperature monitoring is stringent in many industries, not only to meet legislation, but also to guarantee the highest quality product for the end-customer.

Why are Infrared (IR) temperature sensors beneficial for the food and pharmaceutical industry?

IR sensors and imaging cameras are noncontact, so they measure temperature without contaminating or damaging the material to be measured. They are fast, precise, safe and have a long life cycle. They help guarantee product quality, optimize your process, and save material and energy. Integrated software for data recording and analysis makes it easy to keep required verification records and provide evidence that regulations (e.g. HACCP) have been met.

An infrared thermometer can pay for itself the first time you use it!

Low **Temperature Range**

Storing, Freezing, Cooling, Ripening, Whipping, etc.



Tunnel Freezer

Other applications:

- Tobacco Drying
- Plastics Extrusion and Moulding
- Packaging and Sealing
- Pill Coating
- Cleaning and Sanitizing
- Sterilizing

Medium **Temperature Range** Mixing, Blending, Emulsifying,

Ripening, Storing, Fermenting, Drying, Brewing, etc.

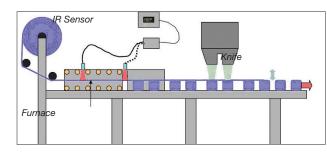


High **Temperature Range** Baking, Cooking, Blanching,

Sterilization, Roasting, Deep-frying, Pasteurization, Extruding, etc.



Baking Machine



Raytek® infrared sensors and cameras are designed for integration into process control systems and can be built into machinery for OEM applications. A wide choice of models is available to suit the specific needs of our customers.



Table of Instruments				
Sensor	Model	Temperature Range*	Output/Interface	Remarks
	Raytek MI IR Point Sensor	-40°C to 600°C (-40°F to 1112°F)	4-20mA, 0-20mA, 0-5V Thermocouple J/K RS232 or RS85	Very Small Stainless Steel Sensing Head
	Raytek TX IR Point Sensor	-18°C to 500°C (0°F to 1000°F)	4-20mA and digital HART/RS232	2-Wire Sensor, Stainless Steel Housing
	Raytek MM LTS IR Point Sensor	-40°C to 800°C (-40°F to 1472°F)	4-20mA, 0-20mA, RS485	Fast Response Time, Stainless Steel Housing, Video Function
	Raytek MP150 IR Linescanner	20°C to 800°C (68°F to 1472°F)	4-20mA, 0-20mA, RS485 Ethernet OPC	Fast (150Hz), 2-Dimensional Thermal Image

* Temperature ranges specific for food and pharmaceutical applications

Fluke Process Instruments

Americas

Everett, WA USA Tel: +1 800 227 8074 (USA and Canada, only) +1 425 446 6300 solutions@flukeprocessinstruments.com

EMEA

Berlin, Germany Tel: +49 30 4 78 00 80 info@flukeprocessinstruments.de

China

Beijing, China Tel: +8610 6438 4691 info@flukeprocessinstruments.cn

Japan

Tokyo, Japan Tel: +81 03 6714 3114 info@flukeprocessinstruments.jp

Asia East and South

India Tel: +91 22 6249 5028 Singapore Tel: +65 6799 5578 sales.asia@flukeprocessinstruments.com

Worldwide Service

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www.flukeprocessinstruments.com

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