OAKTON® infraPro® Thermometers

Choose from five models with advanced features such as offset circle lasers, adjustable emissivity, alarms, and logging capabilities!

Select from two laser types

Single spot laser pinpoints the center of your target

Offset circle laser uses nine lasers to closely define your target area

Select from fixed or adjustable emissivity

adjustable emissivity lets you measure a variety of surfaces more accurately

InfraPro® 1

Our most economical model

features single spot laser and fixed emissivity

InfraPro 2

Features an offset circle laser

also features fixed emissivity and a higher temperature range

InfraPro 3

Features an offset circle laser and adjustable emissivity

also features maximum, minimum, average and differential readings; high and low alarms; RTD probe input; trigger lock for long-term monitoring; and memory that holds up to 12 points

InfraPro 4

Features of InfraPro 3, plus higher optical resolution and an expanded temperature range

50:1 optical resolution lets you accurately read a 3" target from 10 feet away!

InfraPro 5

Features of InfraPro 4, plus a intrinsically safe rating

Class I Division 1, Groups A, B, C, D and Class I, Zone 0, AEx ia IIC, T4 at 50°C

Includes external probe 35629-50

All models feature:

Backlit display

Display maximum reading

Hold function

°C/°F selectable



Left: InfraPro® 3 thermometer.

Right top: Use to measure food temperatures—noncontact measurement prevents contamination.

Right middle: Measure items such as panels that are difficult to evaluate with contact sensors.

Right bottom: You can also use infrared thermometers to measure equipment that is too hot to touch.







3 year warranty

ISO 9001 Vendor CERTIFIED

CE

Infrared thermometers with just the features you need for your exact application!

Use noncontact infrared temperature measurement for areas that are difficult to reach or too hot to touch, to avoid contamination, to measure moving objects, and much more. We offer five InfraPro® thermometers covering a range of features for both simple and advanced temperature measuring needs.

All InfraPro thermometers feature laser sighting to pinpoint your exact target. The 3½-digit backlit display shows temperature readings in °F or °C; low-battery indication; underrange and overrange conditions; and and maximum readings. Hold function freezes display for 7 seconds to let you record your reading.

These compact, lightweight thermometers are easy to carry with you. All thermometers feature a rubber grip and nose that improves resistance to shock, damage, water, and dust. A hard carrying case is included. See the back of this sheet for ordering information, complete comparative specifications and accessories.

Economical InfraPro 1 and 2 thermometers have fixed emissivity for simplicity of use.



Advanced InfraPro 3, 4, and 5 thermometers have adjustable emissivity for measuring a wide variety of substances, and logging capabilities—store measurements in the field.



The intrinsically safe **InfraPro 5** includes remote RTD probe WD-35629-50 with a penetration tip.



InfraPro® Thermometers

• Applications •

Industrial/Electrical: Monitor steam systems, boiler operations, and motor/engine cooling systems performance; detect hot spots in electrical systems, panels and motor bearings. Widely used in all types of industries such as food, veterinary, paper, rubber, textiles, gas/electric utilities, cement, chemical, pharmaceutical, asphalt, roofing, electronics, glass, plastics, metals, carpet/floor covering, tires and many more.

Heating and Air Conditioning: Monitor furnace and duct leakage; detect insulation breakdown; check ceilings, walls and floors for proper room temperature, heat loss and gain.

Food Safety: Fast and convenient screening tool for both cold and hot foods for Food Safety and HACCP. No contamination or damage to the product. Easily take temperature of products moving on conveyors or hard to reach places. Verify equipment performance sanitation and process temperature conditions. Scan cooling systems, refrigerated display cases, trucks and storage areas before loading or stacking.

Agriculture: Monitor plant temperatures for stress, monitor animal bedding to detect spoiling.

Measuring Reflective Surfaces: InfraPro 3, 4, and 5 thermometers with adjustable emissivity allow readings of shiny or reflective surfaces that cannot be measured accurately with fixed emissivity models.

• Definitions •

Spectral Range: The specific wavelength region where an infrared thermometer responds (in the 0.7 to 20 µm band of the electromagnetic spectrum). Instrument response is dependent on the emissivity, reflectance, and transmission of infrared energy. A spectral response in the range of 8 to 14 µm is good for general use.

Emissivity: An object's ability to emit or absorb energy. Perfect emitters have an emissivity of 1. An object with an emissivity of 0.8 will absorb 80% and reflect 20% of the incident energy. Emissivity may vary with temperature and spectral response (wavelength).

Distance-to-target ratio: The infrared thermometer focuses infrared energy from an object onto its detector at this ratio. For example, a 12:1 distance-to-target-size ratio means that the infrared thermometer will read a 1" dia area 12" away. The object must fill the entire area for accurate readings.

Laser Class II: Class II (FDA and Class II IEC) lasers use less than 1 mW of power and project up to 50 feet away



• Specifications •

Catalog number	WD-35629-00	WD-35629-10	WD-35629-20	WD-35629-30	WD-35629-40
Description	**Infrapro® 1**	**Infrapro 2**	**Infrapro 3**	**Infrapro 4**	**Infrapro 5**
Range	–32 to 400°C (–25 to 750°F)	–32 to 545°C (–25 to 950°F)	–32 to 600°C (–25 to 1100°F)	-32 to 760°C (–25 to 1400°F)	-32 to 760°C (–25 to 1400°F)
Resolution	0.2°C (0.5°F)				
Accuracy	±1% of the reading or ±1°C (±2°F) whichever is greater				
Repeatability	±0.5% of reading or ±1°C (±2°F) whichever is greater				
Spectral range	8 to 14 µm				
Response time	500 msec				
Emissivity	Fixed at 0.95	Fixed at 0.95	0.10 to 1.00	0.10 to 1.00	0.10 to 1.00
Laser sighting	Single spot, class II laser	Offset circle, class II laser	Offset circle, class II laser	Offset circle, class II laser	Offset circle, class II laser
Distance-to-target ratio	12:1	12:1	30:1	50:1	50:1
HOLD function	Yes	Yes	Yes	Yes	Yes
Maximum reading	Yes	Yes	Yes	Yes	Yes
Minimum reading	—	—	Yes	Yes	Yes
Differential reading	—	—	Yes	Yes	Yes
Average reading	—	—	Yes	Yes	Yes
High/low alarms	—	—	Yes	Yes	Yes
Datalogging	—	—	up to 12 points	up to 12 points	up to 12 points
External RTD probe	—	—	Optional	Optional	Included
Trigger lock (for long-term monitoring)	—	—	Yes	Yes	Yes
Intrinsically safe	—	—	—	—	Yes
Operating range	0 to 50°C (32 to 120°F)				
Power	9 V battery; display features low battery indicator				
Battery life	10 hours continuous	10 hours continuous	14 hours continuous	14 hours continuous	14 hours continuous
Dimensions	8"L x 6"W x 2"H				
Weight	11 oz (320 g) unit only; 2 lbs (1 kg) boxed				

• Ordering Information •

InfraPro® thermometers

All thermometers include hard carrying case, battery, and instructions. InfraPro 5 includes RTD probe WD-35629-50.

WD-35629-00 InfraPro 1 thermometer
WD-35629-10 InfraPro 2 thermometer
WD-35629-20 InfraPro 3 thermometer
WD-35629-30 InfraPro 4 thermometer
WD-35629-40 InfraPro 5 thermometer

Accessories

WD-35629-50 External RTD probe for InfraPro 3, InfraPro 4 or InfraPro 5. Has 4" penetration tip, 304 SS with 5 ft coiled cable

WD-35629-90 Belt loop holster

See OAKTON product Bulletin # Temp A2 for information on our economical TempTestr IR infrared thermometers.

• ORDER FROM •

Bulletin TEMP B2R1

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