DIGITAL INFRARED THERMOMETER

Pen-style IR thermometer fits easily in a pocket or purse for quick and easy surface temperature measurements.

Used by:
- HVAC Technicians
- Electricians
- Plant Maintenance Technicians
- Hobbyists
- Pool & Spa Technicians
- Mechanics
- Homemakers
- Health Care Workers
- Veterinarians
- Food Preparation Staff
- Pet Shops
- Supermarket Workers
- Livestock Breeding Staff
- Landscapers
- Professional Chefs

FEATURES:
- Temperature Range: -27° to 428°F (-33° to 220°C)
- Accuracy: ±2% of reading or ±2°C
- 0.1° resolution for accurate readings
- Selectable temperature units F/C
- 1:1 Optics (distance-to-spot size ratio)
- Emissivity preset to 0.95
- LCD display
- Non-contact
- Does not use a laser beam
- Metal alloy case
- Lithium batteries (2 LR44 included typically provide for 180 hours of continuous operation)
- Low battery indication
- Automatic power OFF after 15 seconds
- RoHS Compliant
- 1 Year Warranty
- Durable pocket clip

www.nteinc.com
Where can I use an infrared thermometer?:

**Kitchen:**
- Temperatures of all cooking surfaces
- Microwaved foods
- Dishes in microwave heat differently
- Baby formula bottles
- Baby foods
- Teflon fry pans actually become toxic at high temperatures
- Appliance performance: freezer and oven temperature
- Dishwasher water temperatures
- Hot oil temperatures in deep fryers
- Cookie sheet temperature
- Crock pot accuracy
- Melting chocolate
- Candle making
- Home beer brewing
- Fondues: cheese, oil, chocolate
- Serving temperatures of beer and wine
- Pizza ovens

**Safety:**
- Child car seats
- Bath water: especially children and infants
- Check playground equipment: slides and swings
- Beach sand
- Benches and chair temperatures

**Outdoor uses:**
- Verify BBQ surface temperatures
- Water temperatures in pools, spas and hot tubs
- Lawns for heat stress and areas sprinkler missed
- Outdoor fire pits and tool temperatures
- Small stoke engines: mowers, snow blowers
- Driveway temperature before recoating surfaces

**Automotive, Hobby, Racing:**
- Engine check - spark plugs - manifold
- Air conditioning and heating
- Radiator blockages
- Brake temperatures overheating
- Catalytic converters blockage
- Tire temperatures - under/over inflated
- Track temperatures match correct tires
- Engine temperatures in remote control vehicles

**Specifications:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number:</td>
<td>DIT-205</td>
</tr>
<tr>
<td>Measurement Range:</td>
<td>-27° to 428°F (-33° to 220°C)</td>
</tr>
<tr>
<td>Ambient Operating Range:</td>
<td>32° to 122°F (0° to 50°C)</td>
</tr>
<tr>
<td>Storage Temperature Range:</td>
<td>-4° to 149°F (-20° to 65°C)</td>
</tr>
<tr>
<td>Accuracy:</td>
<td>±2% of reading or ±2°C</td>
</tr>
<tr>
<td>Resolution at -9.9°–199.9°C:</td>
<td>0.1° F or °C</td>
</tr>
<tr>
<td>Response Time (90%):</td>
<td>1 second</td>
</tr>
<tr>
<td>D:S:</td>
<td>1:1</td>
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<tr>
<td>Emissivity:</td>
<td>Fixed 0.95</td>
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<tr>
<td>Update Frequency:</td>
<td>1.4Hz</td>
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<tr>
<td>Dimensions:</td>
<td>3.25 x 0.5 inches</td>
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<tr>
<td>Wave Length Response:</td>
<td>5-14um</td>
</tr>
<tr>
<td>Weight (with battery):</td>
<td>2 oz</td>
</tr>
<tr>
<td>Batteries:</td>
<td>2 LR44 (included)</td>
</tr>
<tr>
<td>Battery Life:</td>
<td>180hr (typical)</td>
</tr>
</tbody>
</table>

**Health:**
- Foot temperatures for diabetics
- Muscle tears and sprains
- Arthritic areas
- Horses: bad shoe, muscle tear, scar tissue
- Livestock breeding area temperatures
- Food serving quality at buffets
- Damp spots where mold and mildew grow

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About Distance Ratios:

- Think of the DIT-205 as a flashlight beam - the beam starts at the lens and as DISTANCE increases, the Target Area increases.
- The Infrared Thermometer MUST HAVE a clear line of sight to the target. If there is an object in the near ground, that object will be included in the average temperature.
- Likewise, IF the DISTANCE exceeds the target area’s RATIO - objects in the background will be measured too.

Any Spot Size (S) equals Distance away (D).
This unit’s D to S Ratio is 1 = D to 1 = S.

So at 1 inch away you can measure a 1 inch spot
at 6 inches away you can measure a 6 inch spot
at 24 inches away you can measure a 24 inch spot
at 36 inches away you can measure a 36 inch spot
at 12 feet away you can measure a 12 foot spot area
at 24 feet away you can measure a 24 foot spot area
at 1 mile away you can measure a 1 mile spot area