

H A N D - H E L D B A T T E R Y O P E R A T E D

# NON-CONTACT THERMOMETERS



**FREE** Belt Loop  
Carrying Case

The most affordable hand-held, battery-operated sensor that safely and accurately measures temperature using non-contact infrared technology.



**Tel-Fast**

**TEL-TRU MANUFACTURING CO.**

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## KEY FEATURES

- Non-Contact Temperature
- Selectable °F to °C
- 0 to 600°F (-18 to 315°C)
- -67 TO 280°F (-55 TO 138°C)
- Pocket-Size Portability
- One-Second Response
- Continuous Reading
- Six-Second Temperature Hold
- Laser-Sighting Available
- Battery Included

**HOW TEL•FAST WORKS**

All objects emit measurable infrared energy. The Tel-Fast uses special optics to gather infrared energy from a target surface and focuses this energy onto a custom detector. At that point, the detector will convert the infrared energy into an electrical signal proportionate to the temperature of the target surface.

The final outcome is a digital temperature measurement in degrees Fahrenheit or Centigrade.

**A TEL•FAST DEMONSTRATION**

It's easy to operate Tel-Fast. Simply point at the desired target and press the "on" button for a temperature reading—no contact is ever needed. The Tel-Fast has a first temperature response time of 1 second and a continuous reading feature for thermal scanning.

**TARGETING WITH TEL•FAST**

Direct the Tel-Fast toward the target area. The total infrared energy emitted into the sensor from the target area will be averaged within the field of view. The sensor's field of view is denoted by a distance-to-target ratio (D/T). The Tel-Fast has a D/T ratio of 3:1 and measures the emitted energy of a target one-third the size of the working distance (for example, at 3 inches away, your target size is 1 inch, etc.)

MODEL	TEMPERATURE RANGE
QT1 without laser	0 to 600°F (-18 to 315°C)
QTL1 with laser	0 to 600°F (-18 to 315°C)
QT3 without laser	-67 to 280°F(-55 to 138°C)
QTL3 with laser	-67 to 280°F(-55 to 138°C)

<b>Tel•Fast</b> SPECIFICATIONS	
Resolution:	1°F (1°C)
Accuracy:	± 2% of reading or 3°F/2°C (whichever is greater)
Response Time:	1 second
Target Size/Field of View:	3:1 optics ratio with a 1" minimum target
Repeatability:	± 0.5% of reading, plus one digit
Power Source:	9-volt alkaline battery
Wavelength:	8 to 14 micron
Dimensions:	7.26" x 1.7" x .75"
Weight:	2.7 oz. (without battery)
Emissivity	Fixed at .95
Laser	Class II

**TEL•FAST CAN BE USED JUST ABOUT ANYWHERE YOU NEED TO TAKE ACCURATE TEMPERATURE READINGS**

**Automotive**

- Catalytic Converters
- Exhaust Systems
- Tire Surface Temperature
- Track Temperature (Auto Racing)
- Radiators

**Education & Science**

- Research Laboratories
- Chemical & Petrochemical

**Food Preparation**

- Rotary Cooker Temperatures
- Continuous Infrared Ovens
- Mixers
- Continuous Baking Ovens
- Microwaved Foods

**Electronics**

- Wave Soldering
- Circuit Board Testing
- Thermal Profiling

**Food Service—Restaurants, Fast Food Chains**

- Grill Surface Temperature
- Meats, Soups, Coffee
- Confectionery

**Home Uses**

- Child Safety (Baby bath, bottle heating, etc.)
- Hot Tubs/ Pools
- Microwaved Foods

**Plant Maintenance**

- Boiler Hot Spots
- Energy Auditing
- Electrical Buss Bars
- Motor Performance, Hot Bearings
- Roller Temperature

**Plastics**

- Vacuum Forming
- Extrusion
- Injection Molding

**Roads & Construction**

- Road Stone Dryer (Temperature at exit chute)
- Paving Mix
- Road Installation (Spreading, leveling & curing asphalt)

**Heating & Air Conditioning**

- HVAC Systems
- Residential Energy Efficiency
- Stack Temperature

**Textiles**

- Permanent Press
- Heat Setting
- Dye Setting
- Foam Lamination
- Carpet Backing

Laser Sighting Available



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