



# TEL-TRU MANUFACTURING COMPANY

## NON-CONTACT INFRARED THERMOMETERS

### Tel • Fast

TEL-FAST thermometers are hand-held, battery-operated devices that safely and accurately measure temperature using non-contact infrared technology. Infrared sensors consist of optics, detector, display, and output, and can display temperature measurement in °F or °C within milliseconds. Instruments are ideal for food preparation, automotive, science, electronics, plant maintenance, construction, and HVAC markets.



### QT4242L

**Long Range Professional**



### QT418LD

**Professional Grade with Type K Thermocouple Port**



### QT418L1

**Professional General Grade**

Temperature Range	-76/1600°F (-60/900°C)	-76/1157°F (-60/625°C)	-76/932°F (-60/500°C)
Distance to Target Ratio	30:1	16:1	12:1
Accuracy/Resolution	+/- 2% of reading or 2°C (4°F), whichever is greater	+/- 2% of reading with 1/10 <sup>th</sup> degree resolution	+/- 2% of reading with 1/10 <sup>th</sup> degree resolution
Ambient Operating Temperature	32/122°F (0/50°C)	32/122°F (0/50°C)	32/122°F (0/50°C)
Key Features	Dual Laser Targeting Measures Maximum Temperature during scan Select F or C Adjustable Emissivity (preset at .95) Backlit LCD Display	Laser Targeting <b>K-Type thermocouple port</b> accepts any mini-K-Probe (sold separately) Measures Min-Max-Dif-Avg temperature during scan Select F or C Adjustable Emissivity Backlit LCD Display	Laser Targeting Measures Min-Max-Dif-Avg temperature during scan Programmable HI and LOW audible temperature alarms Select F or C Backlit LCD Display
Power	2 x AAA batteries for 180 hours, Auto-Off	2 AAA batteries for 130 hours, Auto-Off	2 AAA batteries for 130 hours, Auto-Off
Weight/Dimensions	11.3 oz. (with batteries); 9 x 6 x 2.8"	9 oz., 7.5 x 6 x 1.5"	9 oz., 7.5 x 6 x 1.5"
Carrying Case	Hard ABS padded plastic carrying case included	Sold separately	Sold separately



**QTFI40L**  
Professional Grade  
Food Inspection



**QT303F**  
Food Service /  
Inspection



**Tel-Fast 2**  
General Use

Temperature Range	-67/536°F (-55/280°C)	Infrared: -67/572°F (-55/250°C) Needle Tip - K Probe: -67/626°F (-55/330°C)	QT10 and QTL10*: 0/750°F (-18/399°C) QT10Z and QTL10Z*: -67/260°F (-55/125°C) <i>* L denotes Laser</i>
Distance to Target Ratio	12:1	2.5 : 1	10:1 with 1" min. target
Accuracy/ Resolution	+/- 1.8°F (1°C) at 32 to 150°F of reading with 1/10 <sup>th</sup> degree resolution Below 32°F: +/- 2°F (1°C), +/- 0.1°C—Above 150°F: +/- 1.5% (meets HACCP ranges)	Infrared +/- 1.8°F (1°C) at 32 to 149°F of reading Below 32°F: +/- 2°F (1°C) +/- 0.1°C—Above 150°F: +/- 1.5% K Probe: +/- 0.9°F (0.5°C) 1/10 <sup>th</sup> degree resolution	Up to 600°F (315°C): ±2% of reading or 3°F (2°C) plus one digit, whichever is greater Over 600°F (315°F): -4% 1°F (1°C) resolution
Ambient Oper. Temp.	32/122°F (0/50°C)	32/122°F (0/50°C)	50/125°F (10/52°C)
Key Features	Laser Targeting Measures Average and Maximum temperatures Select F or C	3-in-1 with Contact Probe and HACCP Alarm Measures Average, Minimum, and Maximum temperatures	Select F or C
Power	2 AAA batteries for 180 hours, Auto-Off	2 AAA batteries for 40 hours, Auto-Off	9-volt battery, Auto-Off
Weight/ Dimensions	7 oz., 3 x 6 x 1.5"	2.7 oz., 0.95 x 1.5 x 6.1"	3.3 oz. (without battery), 4.7 x 1.9 x 1.4"
Carrying Case	N/A	N/A	Included

## Applications

### Food Service, Restaurants

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

### Food Preparation

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

### Education & Science

- Research Laboratories
- Chemical & Petrochemical

### Electronics

- Wave Soldering
- Circuit Board Testing
- Thermal Profiling

### Plastics

- Vacuum Forming
- Extrusion
- Injection Molding

### Heating & Air Conditioning

- HVAC Systems
- Energy Efficiency
- Stack Temperature

### Plant Maintenance

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

### Automotive

- Catalytic Converters
- Exhaust Systems
- Tire Surface Temperature
- Auto Track Temperature
- Radiators

### Home Uses

- Child Safety
- Hot Tubs/ Pools

### Roads & Construction

- Road Stone Dryer
- Paving Mix
- Road Asphalt Installation

### Textiles

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



## Tel-Tru Manufacturing Company

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