The Tekneka IR85 is a high-performance temperature measurement device that incorporates non-contact infrared technology and a physical K-type probe input. With a distance-to-spot ratio of 50:1, this device allows you to measure small targets from a considerably safer distance than traditional thermometers. It has a fast 150ms sample speed to record temperature changes in real-time and dual laser targeting to show you precisely where the measurement is being recorded. The IR85 is especially useful when you need to test the temperature of moving machinery, active electrical components, or high-temperature surfaces that are physically impossible or unsafe to touch.

Features

- **Dual Laser Sighting:** Uses two lasers to improve aiming accuracy during measurements.
- **Fast Response Time:** Features a 150ms sampling rate for quick data capture.
- **Adjustable Emissivity:** Digitally adjust settings from 0.10 to 1.00 to get accurate readings on different materials.
- **Data Logging:** Internal memory can store up to 100 individual measurement locations.
- **PC Connectivity:** Includes a USB interface to transmit gathered data to a computer for analysis.
- **Alarm System:** Set high (HAL) and low (LAL) temperature alerts to quickly identify out-of-spec conditions.
- **Measurement Modes:** View maximum (MAX), minimum (MIN), average (AVG), and difference (DIF) values during a scan.

Applications

The Tekneka IR85 is used for monitoring machinery and electrical components, diagnosing HVAC systems, ensuring food safety, checking automotive engine and tire temperatures, conducting scientific research, and environmental monitoring.

IR Measurement

IR Measurement	
Measuring Range	-50 to 1200°C (-58 to 2192°F)
Resolution	0.1°C < 1000°C, 1°C > 1000°C
Emissivity (ε)	0.10 to 1.00 (Adjustable)
Optical Resolution (D:S)	50:1
Accuracy	±3°C (-50 to 20°C)
	±1.0% ±1.0°C (20 to 500°C)
	±1.5% (500 to 1200°C)
IR Repeatability	±1.5°C (-50 to 20°C)
	±0.5% (20 to 1200°C)

K-Type Measurement

K-Type Measurement	
Measuring Range	-50 to 1370°C (-58 to 2498°F)
Resolution	0.1°C < 1000°C, 1°C > 1000°C
Accuracy	±1.5% ±3°C (-50 to 1000°C)
	±1.5% ±2°C (1000 to 1370°C)
K-Type Thermocouple Repeatability	±1.5% (-50 to 1370°C)

General Specifications

General Specifications	
LCD	2-temperature values, 4 digits
Display Size	1.9-inch
Response Time	150ms
Value HOLD	Yes
Backlit	Yes
Unit Switch	°C/°F
Modes	MAX, MIN, AVG, DIF
Data Storage	Internal, upto 100 values
Battery	9V
Operating Temperature	-10 ~ 50°C (14 ~ 122°F)
Storage Temperature	-10 ~ 60°C (14 ~ 140°F)
Dimension	35 x 23 x 7.5cm
Weight	Net:300g, Gross: 1.1kg

Package Includes

- 9V Battery
- Mini Stand
- USB Cable
- Carrying Case
- User Manual

Ordering Info

IR85..... Dual Laser IR & K-Type Thermometer