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DingKey Designs Thermo Logger Channel Data Logger

Product Description

The ThermoLogger delivers precision temperature monitoring and data logging with three Type K thermocouple channels, web interface controls using built-in WiFi connectivity, and comprehensive recording capabilities.

Specifications

- **Model**: ThermoLogger
- **Input Type**: K-type thermocouples
- **Channels**: Up to 3
- **Storage**: SD Card (FAT32 formatted)
- **Interface**: USB-C
- **Display**: OLED
- **Control**: Single, Double, Long Press
- **Web Interface**: Yes

Features

- 3 Type K thermocouple inputs (MAX31855K interface)
- OLED display with real-time readings
- Built-in WiFi access point for remote monitoring
- Web-based dashboard interface

- SD card data logging in CSV format
- DS3231 Real-time clock with CR 2032 battery
- Adjustable sampling interval (1s default, adjustable between 0.1-600 seconds)
- Temperature units: °C, °F, K
- Automatic min/max temperature tracking
- Ambient temperature monitoring
- Single-button control interface
- 5V power supply via USB-C
- Cable tie/zip tie holes for strain relief

Benefits

- Monitor multiple temperature points simultaneously
- Access readings remotely via any WiFi-enabled device
- Record data for analysis and documentation
- No internet connection required for operation
- Easy setup with no configuration necessary
- Compact design for versatile placement

Applications

- Cooking and food processing
- Scientific experiments
- HVAC system analysis
- Industrial process monitoring
- Educational projects
- Home brewing
- Electronics testing
- Automotive diagnostics

What's Included

- ThermoLogger Device
- CR2032 Battery
- 32GB SD Card

- K-Type Thermocouple (optional)
    - **Note**: Bundled thermocouple color coding polarity**:**
    - **Red wire is T+** for Chromel
    - **Black wire is T-** for Alumel
    - A cable tie is included for strain relief on device
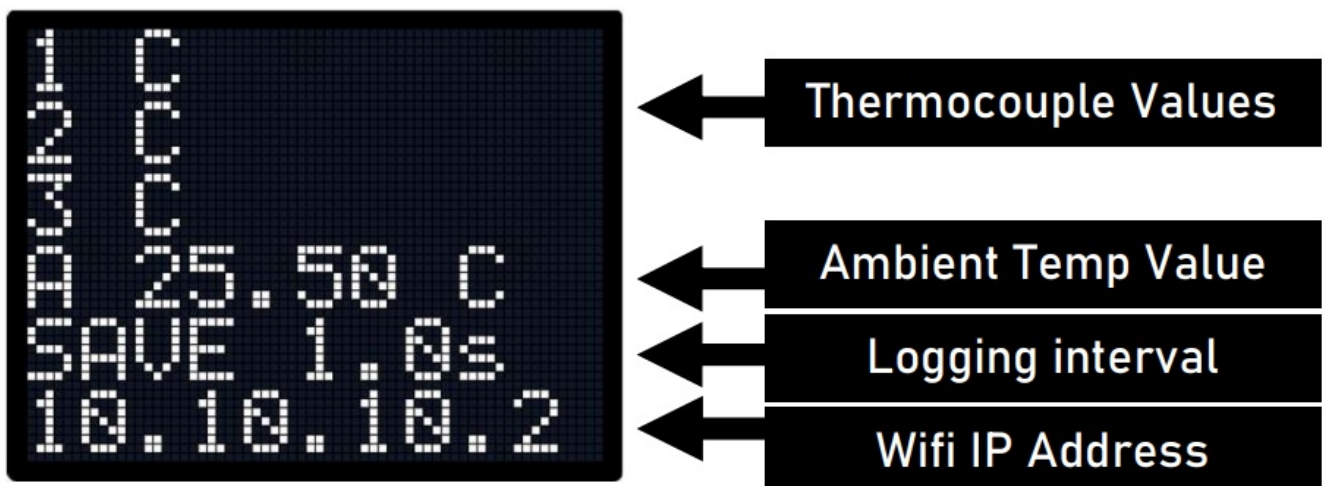
What's Needed

- Small flat head screwdriver for securing screw terminals
- USB-C cable for powering the device

Basic Operation

1. Connect K-type thermocouples to device inputs using a screwdriver, up to 3 channels.
2. Insert a FAT32 formatted SD Card into the device for logging
3. Plug in the USB-C cable to power up the device
4. Read temperatures on the OLED display
5. Check for the correct orientation of the thermocouple. If installed backward, the temperature change direction will be reversed.

Controls

- **Single Press**: Toggle between current/min/max
- **Double Press**: Start/stop SD recording
- **Long Press**: Change temperature units (C/F/K)

Thermocouple Values:

- Ambient Temp Value
- Logging interval
- Wifi IP Address

Web Interface

- Connect to the other device's WiFi AP (Thermologger-xxxx)
- Open a web browser
- Enter the IP address shown on the device display
- Use web controls for setting the RTC real-time clock. Logging interval, viewing temperature data, and controlling start/stop for logging

FAQs

Q: How do I change the temperature units on the ThermoLogger?

A: To change the temperature units (Celsius/Fahrenheit/Kelvin), perform a long press on the device.

Q: Can I use thermocouples other than K-type with the ThermoLogger?

A: The ThermoLogger is designed for use with K-type thermocouples only.

Documents / Resources

	[DingKey Designs Thermo Logger Channel Data Logger](#) [[pdf](#)] User Guide Thermo Logger Channel Data Logger, Logger Channel Data Logger, Channel Data Logger, Data Logger

References

- [User Manual](#)

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Channel Data-Logger, Data Logger, DingKey Designs, Logger Channel Data Logger, Thermo Logger Channel Data Logger

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