



Name: Square Bluetooth Temperature Module

Product Model: MUD-SBTM

FCC ID : 2AU3A-SBTM

GSM,LLC

IC : 25750-SBTM



Product Overview

The MUDDY Electric Heating Suit Controller (Bluetooth Edition) allows users to select and adjust the operating modes (high, medium, and low) of the heating suit via the controller; it also supports Bluetooth connectivity to a mobile app, enabling the app to control the controller's operation.

1. Product Feature Description

1.1 Turn on the power supply, complete initialization, and perform the system self-check.

- Initialization process: The LED remains white until initialization is complete.
- Self-check process: The LEDs cycle through red, green, and blue, each lighting up for 1 second; after 3 seconds, the self-test concludes.
- System self-check results:
 - Load short circuit: After 3 seconds of LED illumination, the white light enters standby mode;
 - Overload: The LED slow-flashing white lamp enters standby mode after 3 seconds, Slow flash cycle 400 millisecond;
 - Open-circuit load: The LED flash white light enters standby mode after 3 seconds, Flash mob cycle 200 millisecond;
 - Load is normal: Enter standby mode directly;

1.2 Button operation

- Press and hold the button for over 3 seconds; the red LED will remain lit, and the device will operate in high-range mode.
- Press once; the green LED will remain lit, and the device will operate in the medium mode.
- Press once; the blue LED will remain lit, and the device will operate in low-power mode.

1.3 Gear Definitions

Top grade: The red light is on, PWM (200ms 100%) or NTC=45°C.

Mid grade: The green light is on, PWM (200ms 75%) or NTC=40°C.

Low grade: The blue light is on, PWM (200ms 50%) or NTC=35°C.

1.4 Bluetooth Connection and Operating Workflow with NTC Controller

After plugging in the power supply, the mobile app displays the device name: muddy_...Click "Connect" to access the app interface, where the NTC field displays the current real-time temperature. When you set the target temperature to "High" (default: 45 °C), "Medium" (default: 40 °C), "Low" (default: 35 °C), or any other value, the system will automatically adjust the real-time temperature accordingly: if the real-time temperature exceeds the target temperature, the device will cease heating; if the real-time temperature falls below the target temperature, the device will initiate heating until the real-time temperature matches the target temperature.

2. Product photos



FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

IC warning

- English:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French:

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."