

印刷成品尺寸 100x90 mm

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| <p>Mocreo[®]</p> <p>ST3 Temperature Sensors Kit</p> <p>User Manual</p> | <p>Contents</p> <p>Introduction 2</p> <p>What's in the Box 3</p> <p>Product Parameter 4</p> <p>Setup 7</p> <p>Installation 15</p> <p>Test the Effective Distance 16</p> <p>How the System Works 17</p> <p>Battery 19</p> <p>Calibration 20</p> <p>Configuration 21</p> <p>App Interface Overview 22</p> <p>Troubleshooting 31</p> <p>Warranty 34</p> <p>Customer Service 34</p> <p>Disclaimer 34</p> <p>FCC Statement 35</p> | <p>Introduction</p> <ul style="list-style-type: none"> MOCREO ST3 Thermo-Hygrometer Sensor Kit can detect and record ambient temperature and humidity in real-time. Detectable Temperature Range: -4°F ~ 140°F. Detectable Humidity Range: 0~100%RH Three Alarm Methods: E-Mail Alert, App Push Notification, Hub Beeping. If placing the ST3 Sensor in a refrigerator/ freezer may weaken the signal, the Hub need to be placed closer to the Sensor. | <p>What's in the Box</p> | <p>Product Parameter</p> <p>(1) Thermo-Hygrometer Sensor</p> <table border="1"> <tr><td>Model</td><td>ST3</td></tr> <tr><td>Wireless Connection</td><td>ZigBee 3.0</td></tr> <tr><td>Communication Range</td><td>230ft/70m (No Obstacles)</td></tr> <tr><td>Dimensions</td><td>2.4 X 2.4 X 0.7inch (L x W x H)</td></tr> <tr><td>Weight (including probe)</td><td>55g</td></tr> <tr><td>Battery (Rechargeable)</td><td>3.7V 1800mAh Lithium Battery</td></tr> <tr><td>Temperature Measuring Range</td><td>-4°F ~ 140°F (-20°C ~ 60°C)</td></tr> <tr><td>Temperature Accuracy</td><td>±0.5°F(0.3°C)</td></tr> <tr><td>Humidity Measuring Range</td><td>0 ~ 100%RH (No Condensation)</td></tr> <tr><td>Humidity Accuracy</td><td>±0.3%</td></tr> </table> <p>Note: This product is designed for indoor use only</p> | Model | ST3 | Wireless Connection | ZigBee 3.0 | Communication Range | 230ft/70m (No Obstacles) | Dimensions | 2.4 X 2.4 X 0.7inch (L x W x H) | Weight (including probe) | 55g | Battery (Rechargeable) | 3.7V 1800mAh Lithium Battery | Temperature Measuring Range | -4°F ~ 140°F (-20°C ~ 60°C) | Temperature Accuracy | ±0.5°F(0.3°C) | Humidity Measuring Range | 0 ~ 100%RH (No Condensation) | Humidity Accuracy | ±0.3% | <p>(2) Hub</p> | <p>Specifications</p> <table border="1"> <tr><td>Model</td><td>HSB</td></tr> <tr><td>Working Temperature Range</td><td>-4°F~140°F (-20°C~60°C)</td></tr> <tr><td>Working Humidity Range</td><td>0~99%RH (No condensation)</td></tr> <tr><td>PAN Wireless Communication</td><td>ZigBee 3.0</td></tr> <tr><td>PAN TX Power</td><td>Up to 20dBm</td></tr> <tr><td>Power</td><td>5V/1A USB Adapter</td></tr> <tr><td>Ethernet</td><td>10Mbps/100Mbps</td></tr> <tr><td>WiFi</td><td>2.4 GHz 802.11b/g/n Wi-Fi</td></tr> </table> <p>Hub Indicators</p> <p>There are 3 types of color of Hub indicators</p> <ul style="list-style-type: none"> Purple: Normal working condition Blue: The Hub is in setup mode (A long press on the Hub setup button, then the Hub will enter the Hub-setup mode) Red: 1) Wi-Fi/Ethernet not connected 2) The alarm event is triggered (When ST3 Sensor detects that the temperature exceeds the set threshold) | Model | HSB | Working Temperature Range | -4°F~140°F (-20°C~60°C) | Working Humidity Range | 0~99%RH (No condensation) | PAN Wireless Communication | ZigBee 3.0 | PAN TX Power | Up to 20dBm | Power | 5V/1A USB Adapter | Ethernet | 10Mbps/100Mbps | WiFi | 2.4 GHz 802.11b/g/n Wi-Fi | <p>Setup</p> <p>1 Download MOCREO App</p> <p>Search "MOCREO Sensor" on Google Play/ App Store or scan the QR Code below to download the MOCREO Sensor App and register a MOCREO account on the App (MOCREO will send you a confirmation Email, click on the confirmation to complete the registration)</p> | <p>2 Setup Tutorial</p> <p>3 Turn on the Bluetooth</p> <p>Make sure the Bluetooth is ON during the whole setup process. For Android, please also enable GPS and agree to grant location permissions.</p> | <p>4 Add a Hub</p> <p>Power up the Hub, Open the MOCREO App, log into your MOCREO account. Tap the [+] Button at the upper right of the MOCREO Home Page to add a Hub, and select the type of network connection, here is an example of Wi-Fi connection.</p> <p>Tips: If you are using Ethernet to add a Hub, please go to the "Customer Service" of this manual (Page 35) and scan the FAQ QR code to get the setup method.</p> | <p>5 Set the Hub Into Setup Mode</p> <p>Press and hold the setup button of the Hub for 5s until the Hub indicator light turns blue.</p> | <p>6 Select the Wi-Fi and Enter the Wi-Fi Password</p> <p>Select the Wi-Fi SSID you want to connect to and enter the Wi-Fi password, Supports 2.4GHz Wi-Fi Only.</p> <p>When "Congrats! Hub setup successfully!" appears on the page, it means the Hub is successfully added.</p> |
| | Model | ST3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless Connection | ZigBee 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Communication Range | 230ft/70m (No Obstacles) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | 2.4 X 2.4 X 0.7inch (L x W x H) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight (including probe) | 55g | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery (Rechargeable) | 3.7V 1800mAh Lithium Battery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature Measuring Range | -4°F ~ 140°F (-20°C ~ 60°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Temperature Accuracy | ±0.5°F(0.3°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Humidity Measuring Range | 0 ~ 100%RH (No Condensation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Humidity Accuracy | ±0.3% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | HSB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Working Temperature Range | -4°F~140°F (-20°C~60°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Working Humidity Range | 0~99%RH (No condensation) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAN Wireless Communication | ZigBee 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PAN TX Power | Up to 20dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power | 5V/1A USB Adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | 10Mbps/100Mbps | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WiFi | 2.4 GHz 802.11b/g/n Wi-Fi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| <p>7 Wake Up the Sensor</p> <p>Poke the Sensor pinhole with a pin for 1s and release, then the indicator light of Sensor will flash, and the Sensor will be woken up and automatically paired the Hub.</p> <p>The Sensor is factory-paired with the Hub. After you have successfully added the Hub on the App, simply poke the pinhole with a pin for 1s then release and the Sensor will activate and paired automatically</p> | <p>How to Add a Separate Sensor</p> <p>1 Sensor Joins the Hub</p> <p>Tap the [+] Button at the upper right of the MOCREO Home Page and select "Climate Sensor - ST3".</p> <p>2 Select the Hub</p> | <p>3 Poke the Sensor</p> <p>Poke the Sensor pinhole with a pin for 6s until the blue indicator on the Sensor keeps flashes, then release, at this point the Sensor enters setup mode (Support adding multiple Sensors at the same time).</p> <p>4 Add the Sensor</p> <p>When "Sensor successfully paired" appears on the page, it means the Sensor is successfully added.</p> | <p>Installation</p> <ol style="list-style-type: none"> Please place the Hub at a relatively high position. The suggested distance between the Hub and Sensor is within 230ft (No obstacles, signal value stronger than 40% is ideal). Remove the adhesive film on the back, paste directly in the desired area | <p>Test the Effective Distance</p> <ul style="list-style-type: none"> Place the paired ST3 Sensor in the location you want to monitor. The suggested distance between the Hub and Sensor is within 32ft-49ft (Household environment) Poke the Sensor pinhole for 1s and release. After 20~30 seconds, Tap the corresponding Sensor card on the App to reach the Sensor Settings Page and view the signal value (refer to Page 26), signal value stronger than 40% is ideal. | <p>How the System Works</p> <p>The ST3 Sensors use ZigBee 3.0 protocol to communicate with the Hub. Therefore, they are limited to a ZigBee range centered on the Hub (e.g., around the house). This range is affected by distance and obstacles such as walls, windows, water, radio interference, etc. In short, longer</p> | <p>distances and more obstacles mean weaker signals. The MOCREO Hub uses a Wi-Fi (2.4GHz only) or Ethernet to transmit data from the MOCREO Sensors in range to the Internet. A cellular hotspot with WiFi or Ethernet capability can also be used to provide Internet access. Then, the MOCREO App can be used to view your device data from anywhere in the world.</p> | <p>Battery</p> <ul style="list-style-type: none"> ST3 Sensor built-in 1800mAh rechargeable lithium battery. The battery can last up to 2 years before it needs to be charged again. Please charge the Sensor with a Micro USB Cable and a 5V 1A power adapter. The battery percentage can be checked on the App: Sensor Settings Page>Battery Level (Please do not check the battery level while the device is charging). When charging, the red indicator light will stay on and when the red indicator light goes off it means charging is complete. Low battery alert will be triggered when the battery is below 10%(Including Email alerts and APP notification). | <p>Calibration</p> <ul style="list-style-type: none"> When the temperature or humidity changes drastically, the ST3 Sensor requires some time to calibrate the reading, it would take about 20 minutes for the ST3 to measure to proper ambient temperature and humidity. The ST3 has a built-in Swiss-made SHT30-DIS-B chip, which is a strictly calibrated industrial-grade chip and is more accurate than ordinary consumer chips. Calibration is usually not required, if you need information about the chip, please check the FAQ. Calibration is only used to correct for small variations of ±0.54°F (±0.3°C) and ±3%RH. If you | <p>find a bigger difference, which indicates a problem with the calibration process or your Sensor, please contact MOCREO Customer Service.</p> <p>Configuration</p> <p>Name the Sensor: Tap Sensor Card > Gear Button on the Upper Right > Alias Name > Save</p> <p>Name the Hub: Tap Gear Button on the Upper Left > Hubs > Click Gear Button on the Hub Card > Name > Save</p> <p>Alarm: Tap Gear Button on the Upper Left > Alarm > Set Alarm Model > Save</p> <p>Export Data: Tap Sensor Card > Gear Button on the Upper Right > Export Historical Data > Choose Time Period > Export</p> | <p>App Interface Overview</p> <p>Tips: The following introduction is based on MOCREO App version: 1.4.0. The actual interface may vary with different versions.</p> <p>Sensor Card</p> <ol style="list-style-type: none"> Yellow: The Sensor is online and updates data normally (The Sensor card will flash when the Sensor status is changed or when the Sensor is poked with a pin for 1s). Grey: Sensor Offline/ Hub Offline <ul style="list-style-type: none"> When the Hub is offline, the upper right corner of the Sensor card shows "Hub offline". When Sensor is offline, "no signal icon" will be displayed in the upper right corner of Sensor card. | <p>MOCREO Home Page</p> <p>This is the main page of the MOCREO App. It lists all Sensors in card form. Each Sensor card shows the most recent information the App has from the sensor on the MOCREO Cloud.</p> <p>Temperature</p> <p>The temperature latest detected by this Sensor is shown here.</p> <p>Alarm Signs</p> <p>Alarm Signs will appear next to the Temperature. It will only be displayed when the Sensor triggers an alarm to alert you.</p> <p>Humidity</p> <p>The humidity latest detected by this Sensor is shown here.</p> <p>Last Updated Timestamp</p> <p>Last updated is the latest data reporting time of Sensor.</p> |
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| <p>Sensor Detail Page</p> <p>Tap a Sensor card on the MOCREO Home Page to reach the Sensor Detail Page.</p> <p>Time Period</p> <p>The hour, day, week, month buttons change the time period of the graphs shown on this page.</p> <p>Temp & RH Graphs</p> <p>Use two fingers to pinch (Similar to zooming in on a device) to see a larger or smaller window of time.</p> <p>Setting Button</p> <p>Tap here you will enter the Settings Page for this Sensor to set the configurations.</p> | <p>Sensor Settings Page</p> <p>The Sensor Settings Page is where you configure settings for an individual Sensor.</p> <p>Alias Name</p> <p>Tap here to change the Sensor name.</p> <p>Battery Level</p> <p>This position shows the current battery level of this Sensor. A low battery alarm is triggered when the battery level drops below 10%. More details please reach to "Battery" section of this manual (Page 19).</p> <p>Signal Level</p> <p>This position shows the current signal level of this Sensor. Sensor signal should be at least 40% to ensure stable communication between Hub and Sensor.</p> <p>Save Button</p> <p>Tap here to save your settings.</p> | <p>Temp Alerting</p> <p>Set a max/min temperature limit for this Sensor here. When this Sensor exceeds the limit, an alarm will be triggered.</p> <p>Delay Before Alert</p> <p>Fill in here to set the alarm delay time. For example, if you fill in 10 minutes, when the temperature exceeds the threshold, the alarm will not be triggered immediately, but after 10 minutes.</p> <p>RH Alerting</p> <p>Set a max/min humidity limit for this Sensor here. When this Sensor exceeds the limit, an alarm will be triggered.</p> <p>Beeping on the Hub</p> <p>When "Beeping on the Hub" option is switched on, the Hub will buzz as soon as the Sensor exceeds the limit.</p> | <p>Temp & RH Compensation</p> <p>Tap here you can calibrate the Sensor. More details please reach to "Calibration" section of this manual (Page 20).</p> <p>Export Historical Data</p> <p>Tap here to export historical data, the data exported to CSV format, you can organize the data through Excel table form for easy analysis.</p> <p>Sensor SN</p> <p>This is the identification ID of the Sensor</p> <p>Hub SN</p> <p>This is the identification ID of the Hub to which this Sensor is bound.</p> <p>Delete Sensor</p> <p>Select "Delete Sensor" will completely remove the Sensor from the App (It can be re-added).</p> | <p>Menu Page</p> <p>Tap the Menu Button at the upper left of MOCREO Home Page to reach the Menu Page. It includes a variety of options for the App as a whole.</p> <p>Alerts</p> <p>Tap here to set the alerts (including Email Alerts and App Push Notification) of the whole App. And you also need to turn on the te alert option in the Sensor Settings Page to receive alerts from the specific Sensor.</p> <p>Alert Logs</p> <p>Tap here to go to the Alerts Page, you will see the historical alarm notifications for all Sensors.</p> <p>Settings</p> <p>Tap here to set timezone, switch between Celsius and Fahrenheit, and check the App Version.</p> | <p>Hubs</p> <p>Tap here you will see all the Hubs you have bound and you can click on the Hub Card to see specific information about the Hub (IP Address, PAN, Firmware Version, Hardware Version, SN, etc.). And you can open Hub's Web Portal, name the Hub and turn on the Scheduler to the Hub to stop beeping at a specific time range and set the cycle.</p> <p>Support</p> <p>If you encounter any problems in the process of use please tap here to submit a question, our technical staff will check your problem remotely and reply to you within 24 hours.</p> <p>FAQ</p> <p>Tap here to go to the FAQ page of the MOCREO website. If you encounter any problems in using the product, you can check here for solutions.</p> | <p>Alerts Page</p> <p>Tap the alert logs option at Menu Page to reach the Alerts Page, and you will see the historical alarm notifications for all MOCREO Sensors.</p> <p>Green Alert Card</p> <p>Green alert card means that the temperature/humidity detected by the Sensor has returned to within the set threshold.</p> <p>Red Alert Card</p> <p>Red alert card means the Sensor has triggered an alarm. For ST3 Sensor, it will send this notification when the Sensor detects that the temp/humidity exceeds the set threshold.</p> <p>Dismiss All</p> <p>Tap here and all your unread alerts will turn to read (grey alarm card means they are read) And you can also close Hub beeping remotely by tapping here.</p> | <p>Troubleshooting</p> <p>1. The Hub Cannot Connect to Wi-Fi?</p> <ol style="list-style-type: none"> The Hub only supports 2.4 GHz (not 5 GHz) Wi-Fi. Please check if Bluetooth is turned on and if the Hub is in setup mode during setup. Check the Wi-Fi SSID and password of Wi-Fi. Wi-Fi password length supports 8-64 ASCII (numbers 0-9, English letters A-Z, a-z and regular English punctuation) or hexadecimal characters (numbers 0-9, 16 of A/B/C/D/E/F). All other characters are not supported. The device should be placed within the coverage of the Wi-Fi signal. Please try to shorten the distance between the Hub and AP (Access Point). Reduce obstacles like metal doors or multiple/thick walls. <p>2. The Sensors do not Work?</p> <ol style="list-style-type: none"> The Sensor cannot be connected <ul style="list-style-type: none"> Take the Sensor to the Hub side (better within 3 ft), poke the pinhole of the Sensor for 1 sec, then release. If it doesn't work, please re-add this Sensor. For more details, please see the "How to Add a Single Sensor" section of this manual (Page 13). Please try to restart the "MOCREO Sensor" App. The Sensor data is not updated: <ul style="list-style-type: none"> Take the Sensor within 3 ft of the Hub and poke the Sensor pinhole for 1 sec to make it back online. Shorten the distance and reduce obstacles between the Sensor and Hub. Cannot Receive Alerts from the App? <ul style="list-style-type: none"> Turn on the relevant permissions to the "MOCREO Sensor" App. Shorten the distance and reduce obstacles between the Sensor and Hub. <p>Note:</p> <ol style="list-style-type: none"> To improve wireless stability, it is recommended <ol style="list-style-type: none"> Install the Sensor close to the Hub. It's better if the Hub and the Sensor are in sight. Reduce the obstacles between the Hub and the Sensor. The Hub and Sensor should be placed far away from metal objects or surfaces to avoid signal interference. Check if the Hub's antenna is tightened and keep it upright. Stay away from high power equipment, flammable and explosive materials. Precautions about the Sensor placement environment <ol style="list-style-type: none"> The Data Logger is non-waterproof, please avoid water submerging and extreme temperature. The working temperature range of the Sensor is -40°F to +257°F (-40°C to +125°C). When exceeding this range, the data monitored might be inaccurate or the Sensor might be damaged. The battery is rechargeable. It can be charged with the micro USB cable equipped. But the battery is not removable. | <p>Warranty</p> <p>MOCREO products enjoy a 12-Month limited warranty (start from the date that customer receives the product), which applies only to hardware components of the device that are not subject to accident, misuse, neglect, fire, or other external causes, alterations, repair.</p> <p>Customer Service</p> <p>Search [MOCREO Sensor] on YouTube to watch the setup video tutorial</p> <p>Disclaimer</p> <p>The contents of the manual about the use of the product and the introduction of the App are for reference only, please refer to the actual situation for specific application if there are deviations in the actual. please contact MOCREO Support for updates. This product is for detecting and monitoring only. MOCREO is not responsible for any property damage or other consequences of the use of this product.</p> | <p>FCC Statement</p> <p>FCC ID (Sensor): 2A3BD-ST4 FCC ID (Hub): 2A3BD-H1</p> <p>This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"> This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. <p>Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p> <p>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:</p> <ol style="list-style-type: none"> 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. <p>(v1.0)</p> |
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