Thank you for purchasing MADRIX USB temperature!

6th Edition – July 2017

Please read this guide carefully and thoroughly before using MADRIX USB temperature.
Make sure that you fully understand all information.

Key Features

This small and durable sensor measures the temperature.

Incoming temperature values are directly translated into DMX data in the MADRIX Software as well as degree Celsius or degree Fahrenheit.

The small unit can simply be connected to any USB 2.0 port.

Example of use: SCE Ticker / Scrolling Text

Technical Specifications

Power Supply	DC 5 V, 500 mA, Power over USB
Power Consumption	< 50 mA during normal operation
USB	USB 2.0, type A plug, Plug and Play, 2 m cable
Dimensions (L x W x H)	40 mm x 25 mm x 15 mm
Weight	69 g
Operating Temp.	-20 °C to 80 °C
Storage Temp.	-20 °C to 80 °C
Relative Humidity	0 % to 100 %, non-condensing (Operating / Storage)
IP Rating	IP57
Certificates	CE, RoHS

Package Contents

1x MADRIX USB temperature
1x Quick start guide

Please note: Check the package contents and the condition of the interface after unpacking! Contact your supplier if something is missing or damaged. Do not use the device if it seems to be damaged!

Software Requirements

MADRIX I/O requires MADRIX 3.
Please update at least to MADRIX 3.4.

CE   RoHS compliant

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Limited Warranty

Two years of limited manufacturer's warranty are granted to the purchaser of this product. Warranty applies to constructional fault, material defect, or incorrect assembly the manufacturer has caused or is to be held responsible for. Warranty will be void if the interface is opened, modified, damaged through inappropriate handling and wrong usage, damaged through overvoltage, or damaged through any other cause.

End-Of-Life

This electrical device and its accessories need to be disposed of properly. Do not throw the device into normal trash or household waste. Please recycle packaging material whenever possible.

Step-By-Step Configuration

1] Connect your device.
2] Enable drivers in MADRIX.
3] Enable your device.
4] Set up DMX Input.
5] Choose how to use incoming data.

1] Connect Your Device
- Connect your MADRIX I/O device to a free USB 2.0 port of your computer.
- Make sure that Windows recognizes the device. Windows will automatically install the drivers for the device.

2] Enable Drivers In MADRIX
- In MADRIX, go to 'Preferences' > 'Options...' > 'Devices USB'.
- Activate 'MADRIX I/O'.
- Click 'Apply' and 'OK'.

3] Enable Your Device
- Go to 'Preferences' > 'Device Manager...' > 'DMX Devices'.
- Click on the Search button (loupe icon) if your device is not shown in the list.
- Select your device in the list and select 'Enable' in the section 'Settings'. Click 'Apply'. Now, in the list the 'State' will switch to 'On' [indicated by green light].

It is not recommended to change the 'Frame Time (ms)' of your device. Instead, it is highly recommended to use the default settings.

4] Set Up DMX Input
- Go 'Preferences' > 'Device Manager...' > 'DMX Input'.
- Select one entry in the list [e.g., 'Universe 1'] and go to the section 'Device'. Choose your device under 'DMX-IN Device'.
- MADRIX will now receive data from your device.

5] Choose How To Use Incoming Data
Now, you have several options to choose from:
- A] You can activate 'Remote' and choose a protocol in the section 'Remote Control'. This will allow you to control MADRIX remotely using your controller.
- B] You can use incoming data in a Script or Macro.
- C] You can monitor incoming DMX data in the DMX Watcher. Select your device in the list and click 'Watch Universe...'. Learn more below.

Close the Device Manager with 'OK'.

Monitoring Incoming DMX Data
To effectively work with incoming DMX data from your device, you can use the DMX Watcher to monitor incoming signals.
- Open the DMX Watcher as explained above or go to 'Tools' > 'DMX Watcher...'.
- Select 'Input'.
- Set up the correct 'Universe'. This is the same number as you have chosen in the list under 'Preferences' > 'Device Manager...' > 'DMX Input' [e.g., 'Universe 1'].

More Information
- The recommended 'Frame Time (ms)' is **1000**.
- Incoming data directly translates into DMX data in MADRIX.
- Data is sent to **DMX channel 1 – DMX channel 10** on your selected .

- **DMX channel 1** represents the temperature in degree Celsius. Valid values range from -20 °C to +80 °C.
- **DMX channel 2** represents the decimal place of degree Celsius. Valid values range from .0 to .99.
- **DMX channel 3** shows if the temperature values shown on DMX channel 1 are above zero [0] or below zero [255].
- DMX channel 4 is not used.
- **DMX channel 5** represents the temperature in degree Fahrenheit. Valid values range from -4 °F to +176 °F.
- **DMX channel 6** represents the temperature decimal place of degree Fahrenheit. Valid values range from .0 to .99.
- **DMX channel 7** shows if the temperature values shown on DMX channel 5 are above zero [0] or below zero [255].
- DMX channel 8 is not used.
- **DMX channel 9** represents the temperature in DMX values. Valid values range from 0 to 255.
- **DMX channel 10** represents the decimal place of DMX values. Valid values range from 0 to 255.

Support

In case of further questions concerning handling of MADRIX I/O or technical problems, please read the MADRIX Help And Manual first, contact your dealer, or have a look at the website www.madrix.com You can also directly contact info@madrix.com

Imprint