

Multi-meter with  Bluetooth[®] 5.0 SIG Mesh

HBLM01

Multi-meter
























HYTRONIK[®]


Product Description

HBLM01 is a Bluetooth multi-meter, powered by both solar and battery, it detects illumination, temperature, and humidity, and transmitting data via Bluetooth. With NFC integrated, it is convenient for device configuration and commissioning. Moreover, HBLM01 is compact in size and freely be placed anywhere for needed. All simple device setup and commissioning can be done via the **Koolmesh**[®] app.







App Features



-  Quick setup mode & advanced setup mode
-  Floorplan feature to simplify project planning
-  Web app/platform for dedicated project management
-  Koolmesh Pro iPad version for on-site configuration
-  Grouping luminaires via mesh network
-  Scenes
-  Detailed motion sensor settings
-  Push switch configuration
-  Schedule to run scenes based on time and date
-  Internet-of-Things (IoT) featured
-  Device firmware update over-the-air (OTA)
-  Device social relations check
-  Bulk commissioning (copy and paste settings)
-  Dynamic daylight harvest auto-adaptation
-  Power-on status (memory against power loss)
-  Offline commissioning
-  Different permission levels via authority management
-  Network sharing via QR code or keycode
-  Remote control via gateway support HBGW01 or HBGW02
-  Interoperability with Hytronik Bluetooth product portfolio
-  Compatible with EnOcean BLE switches
-  Displays the remaining charge of the solar cell
-  Continuous development in progress...

Hardware Features



-  LUX measurement
-  Humidity measurement
-  Temperature measurement
-  LED Indication
-  Freely placement
-  With solar battery
-  NFC integrated
-  Designed for Office Desks & Warehouse Flow
-  5-year warranty

 **Bluetooth[®] 5.0 SIG mesh**

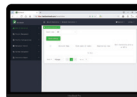


  iOS


 
for iOS for Android

Smartphone app for both iOS & Android platform

 
for iPad

Koolmesh Pro app for iPad

  Web

for Web

Web app/platform: www.iot.koolmesh.com

Technical Specifications & Dimensions

Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	Bluetooth® 5.0 SIG Mesh

Dimensions	
Sensor (ØxH)	51 mm x 13.2 mm
Overall Frame(LxWxH)	60mm x 60 mm x 14.9mm

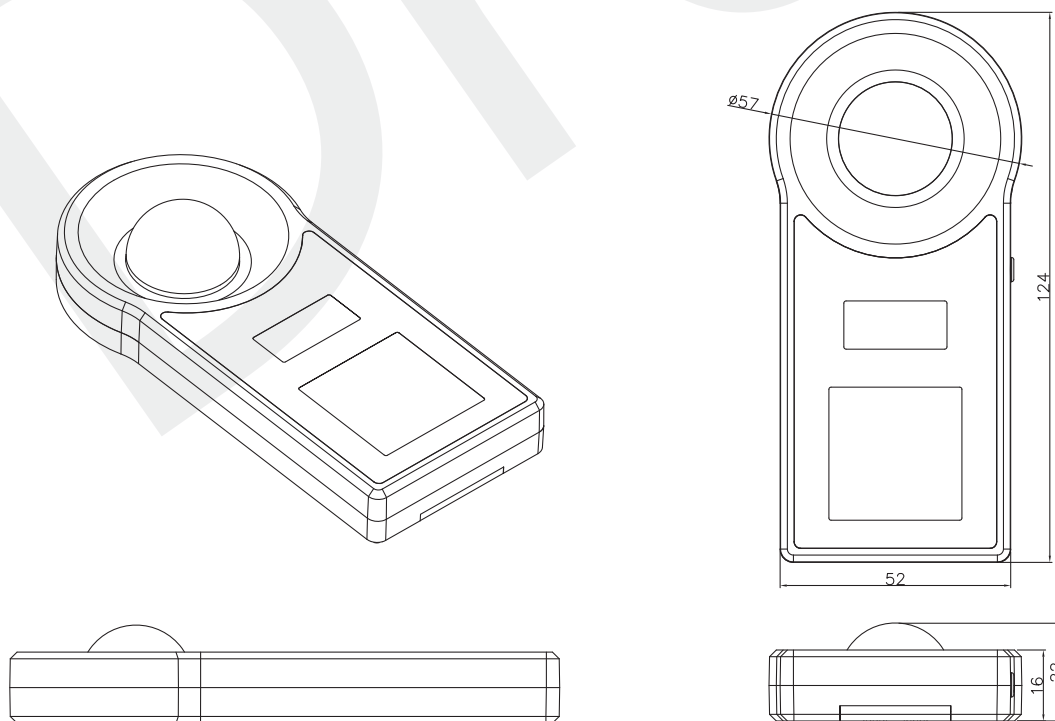
Measurement Range	
Temperature	Ta: -40°C ~ +85°C
Humidity	0% ~ 100%
Lux range	0 ~ 2000 Lux

Input & Output Characteristics	
Input voltage	3.0V
Standby current	10uA
NFC	13.56 (MHz)

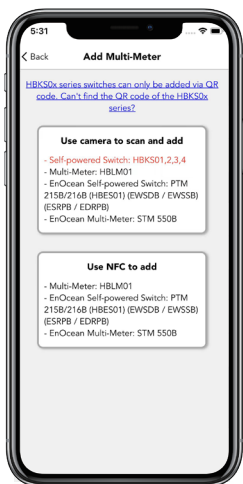
Environment	
Operation temperature	Ta: -5°C ~ +45°C
Relative humidity	0% ~ 90%
Storage temperature	Ta: -40°C ~ +70°C
IP rating	IP20

Safety & EMC	
EMC standard (EMC)	
Safety standard (LVD)	
RED	

Mechanical Structure

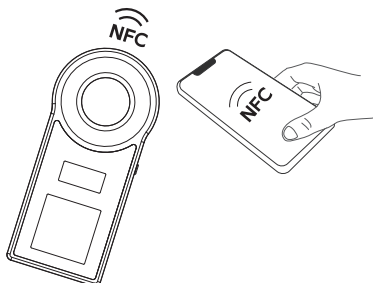


Setting via **Koolmesh**® app



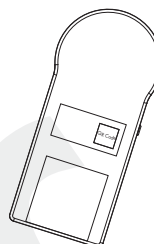
A. Use NFC to add

Turn on NFC on your phone and close to the top of HBLM01 to pair the device.



B. Use camera to scan and add

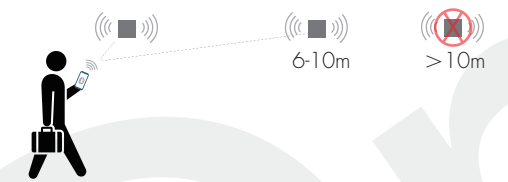
Scan the QR code on the back of HBLM01 to pair the device.



- Notes:
1. The version of the bound Bluetooth product must be greater than or equal to 4.1.
 2. The distance between Bluetooth products and HBLM01 cannot exceed the Bluetooth range.

Placement Guide and Typical Range

Smart Phone to Device Range



The smart device with the App installed will have a typical range of 10m, but varies from device to device. During commissioning, the installer will need to be in range of the devices when searching for devices to add to the network.

Once the devices have been added to the network via the App, the devices will start communicating within the wireless mesh. This means that once the network is complete, all devices are accessible from the smart device when in a 20m range of a single point.

Additional Information / Documents

1. To learn more about detailed product features/functions, please refer to www.hytronik.com/download->knowledge->Introduction of App Scenes and Product Functions
2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to www.hytronik.com/download->knowledge->Bluetooth Products - Precautions for Product Installation and Operation
3. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download->knowledge->Hytronik Standard Guarantee Policy