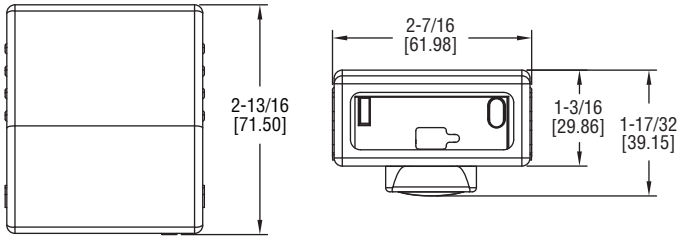
Model UHH-BTG Wireless Mobile Gateway

Specifications - Installation and Operating Instructions



The Model UHH-BTG Wireless Mobile Wireless Gateway transforms the wireless signal from any Dwyer Instruments, Inc. universal handheld probe or module into a Bluetooth SIG, Inc, Wireless Technology. Using this gateway, any iOS® Firmware version 5.X or later or Android® Firmware version 3.X or later smartphone or tablet can become the base instrument for measuring or logging. Once the gateway is paired with a phone or tablet, our Mobile Meter™ app or any other Dwyer Instruments, Inc. approved apps can detect available probes or modules. Wireless gateways can detect probes or modules that are 50 feet away or even greater distances depending on the environment. The wireless signal from the gateway to the mobile device adds at least another 25 feet of sensing distance. Model UHH-BTG is compact in size and clips on to most standard belts. The rechargeable battery can be charged using the same mini-USB cable and charger as the probes or modules. LED lights indicate the battery status and whether the gateway is communicating properly.

NOTICE This device complies with Industry Canada license-exempt RSS standard(s). 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.

Cet appareil est conforme à des règlements d'Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) Ce dispositif ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numériqué de la classe B est conformé à la norme NMB-003 du Canada.

SPECIFICATIONS
Wireless Protocol: Conforms to Bluetooth SIG, Inc. low energy wireless technology.
Wireless Distances: 50´ (15 m) or greater.
Response Time: 1 s.
Temperature Limits:
Ambient: 5 to 125°F (-15 to 51°C);
Battery Charging: 32 to 113°F (0 to 45°C).
Power Requirements: 3.7 V YT562447 lithium ion battery, installed functional, user replaceable.
Weight: 2.5 oz (70.87 g).
Agency Approvals: CE with CE approved charger, RoHS, FCC.

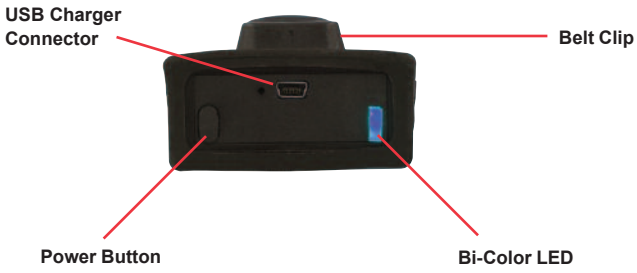


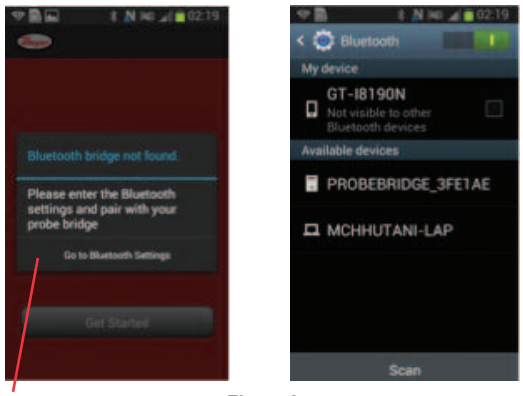
Figure 1

LED Status	Blue LED	Red LED
Paired or pairable to phone or tablet	Slow blink	Off
Communications to mobile device or probes	Rapid blink	Off
Charging or powering off	Off	Solid
Low battery	Off	Slow Blink

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46360, U.S.A.
Phone: 219/879-8000
Fax: 219/872-9057
www.dwyer-inst.com
e-mail: info@dwyermail.com

Pairing to Phone or Tablet

The Mobile Meter™ app will need to be downloaded and installed to the mobile device from Google play or Apple iTunes store. In order to pair the Model UHH-BTG Wireless Mobile Gateway to your phone or tablet, you must first turn on the gateway by pushing the power button on the top of the gateway (see Figure 1 to locate the power button). Next, either open the Mobile Meter™ app or go directly to the bluetooth menu (see Figure 2) in the settings menu on your phone or tablet. The bridge is automatically discoverable once it is turned on. Select the device named PROBEBRIDGE followed by the serial number of your gateway. If prompted for a pass code, type in 0000. Once the gateway is paired to the phone, the blue LED on the gateway will flash when communications are transmitted between the phone and the gateway.



Touch to go to bluetooth menu

Figure 2

Pairing Probes or Modules to Gateway

The wireless probes and modules automatically become discoverable to the gateway when they are turned on if they are not already connected to another gateway or Model UHH base unit. You must be in the Mobile Meter™ or other Dwyer Instruments, Inc. approved app to see which probes are paired. The blue LED on the gateway and the green LED on the probe will flash rapidly when there is communication between the probe and the gateway.

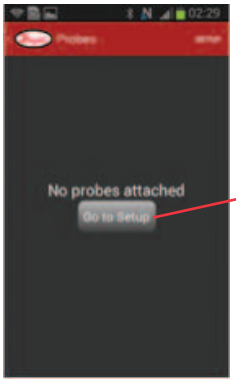
Mobile Meter™ App Operation

Upon opening the Mobile Meter™ app, you will see "Get Started" if the Wireless Mobile Gateway is paired to the device.

Touch to get started

Figure 3

During your first time using the app, you will not have any probes paired yet. It will prompt you to go to the probe set up menu to find available probes. Turn on your probes or modules at this time to make them discoverable before hitting the button on the phone.



Touch to setup probes

Figure 4

There is a refresh button in the set up menu if you don't see the desired probe or module in the list. Select the desired probes or modules by touching the box on the right side of the screen. You can always go back to the probe selection screen by pressing set up in the upper right hand corner of the Mobile Meter™ app. The past paired probes and modules will be stored in this list as well. Probes or modules that are currently unavailable will be in grey, but they can still be selected to display when they become active. Pressing the arrow next to the Dwyer logo at the top of the screen will return you to the active probes list.

Touch to go back to previous menu

Touch to refresh

Touch to select probe

Figure 5

NOTICE It is recommended that only four probes be selected due to bandwidth limitations between the phone and the gateway.

This active probe list will give the probe names and the measurement data for all of the selected probes. Additional information such as low battery warnings of the probes and the communication status is available in this screen. Touching the wrench will take you to the measurement preference menu for that probe.

Touch to access parameters

Connection status

Figure 6

In the Preference Menu, you can select which parameter will be displayed larger on the screen, the function of the parameter, engineering units, and logging method. Pressing the arrow next to the Dwyer logo will return to the active probe list.

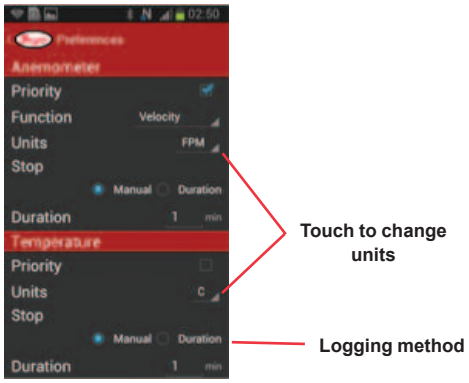


Figure 7

Any of the probes can be made full screen by touching the desired probe. In this view, you can scroll through the active probes by swiping the screen to the left or right. Logging can be initiated in this screen by either pressing the button on the probe or by pressing the Log button at the bottom of the screen. If the logging is set to manual, each button push will save one measurement. If the logging is set to duration, it will log continuously for the set duration.

NOTICE Only one probe can be logged at a time and you can not switch to another probe until you save and close the log.

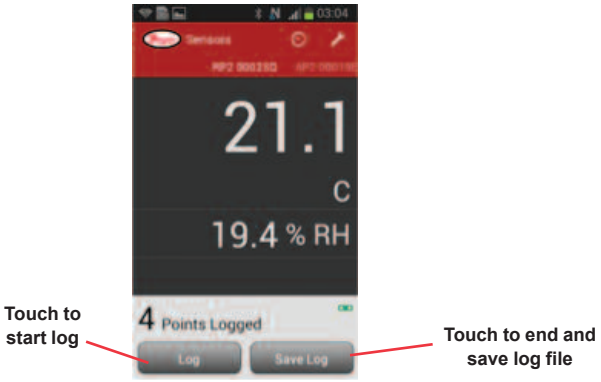


Figure 8

In order to end a log file, press the Save Log button on the bottom of the screen. You can either view the log file, share the log file, or close the log file. In order to view the log file, touch Open Log. If you desire to share the log file, you can select to share the file via wireless communication to another device, email the file directly from the phone, or share it via Wi-Fi to another device on the same network. Otherwise, touching OK will close the file for later access.

Figure 9

The measurements are normally displayed as a digital meter. If desired, the measurements can be shown as an analog gauge by touching the gauge icon at the top of the screen.

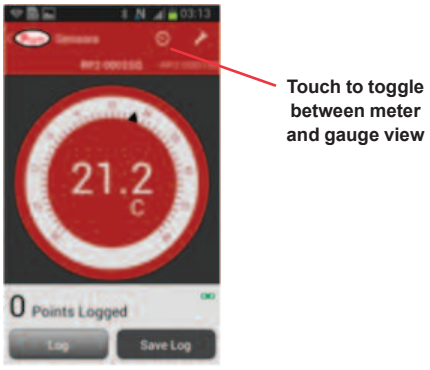


Figure 10

MAINTENANCE/REPAIR

Upon final installation of the Model UHH-BTG, no routine maintenance is required. The Model UHH-BTG is not field serviceable and should be returned if repair is needed. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Refer to “Terms and Conditions of Sale” in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.

Printed in U.S.A. 5/14

FR# 02-444099-50 Rev. 2

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46360, U.S.A.
Phone: 219/879-8000
Fax: 219/872-9057
www.dwyer-inst.com
e-mail: info@dwyermail.com