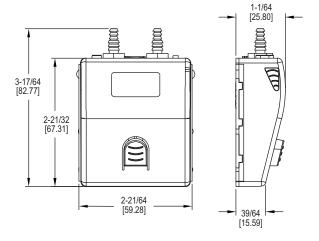


Series WDPM Wireless Differential Pressure Module for UHH/UHH2

Specifications - Installation and Operating Instructions





The Series WDPM Wireless Differential Pressure Module transmits measurements to Models UHH and UHH2 or the Dwyer Mobile Meter® app to view pressure drop across filters, static pressure in ducts, and velocity pressures from pitot tubes or air flow stations. When using it with a pitot tube or air flow measuring station, the measurement can be calculated to read directly in air velocity or volumetric air flow. The module mounts in the holder on the back of the handheld, or in an optional mounting bracket.

Wireless modules can take measurements from at least 50 feet away from the base unit. An LED flashes on the top of the module to let the customer know when the module communicates with the handheld, as well as when the module's battery is low. The battery is rechargeable via the mini-USB connector on the top of the module.

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.

CHARGING BATTERY

NOTICE

It is required before the initial use of the module to fully charge the battery for 12 hours.

When the charge of the battery is almost used up, the LED on the module of the wireless probe will turn solid red. There is approximately 5 minutes of battery life left at this point. If the module is not already paired to the base unit, it will not pair while in low battery condition.

Step 1: Plug the mini-USB connector end of the cable into the top of the module.

Step 2: Plug the USB connector end of the cable into the port on the charger or PC (LED on the charger and the module should both light up).

Step 3: The LED on the module will turn off when fully charged.

Step 4: Remove USB cable from the module and the charger or PC.

WARNING Lithium ion batteries are very volatile and can cause a fire if punctured or severely damaged. Only use a Dwyer Instruments,

Inc. approved charging device in a well ventilated area away from any flammable materials or gases. Do not incinerate the battery. Only charge between 32 to 113°F (0 to 45° C).

SPECIFICATIONS

Service: Non-corrosive dry gases. **Wetted Materials:** Consult factory.

Accuracy: ±0.5% FS span @ 25°C (includes non linearity, hysteresis, and non

repeatability)

Pressure Limits: See Table 1.

Temperature Limits: Compensated: 32 to 140°F (0 to 60°C); Process/Ambient: 14

to 140°F (-10 to 60°C).

Thermal Effects: ±0.01% FS/°F (±0.02% FS/°C). Battery Charging Limits: 32 to 113°F (0 to 45°C).

Power Requirements: 3.7 V YT562447 lithium ion battery, installed functionally,

user replaceable.

Wireless Distance: At least 50' (15 m).

Weight: 2.5 oz (70.87 g).

Connections: Two barbed connections for use with 1/8" (3.18 mm) or 3/16" (4.76

mm) ID tubing.

NOTICE

If desired, it can be operated with USB powered cables less than 3 m in length when connected to the charger or PC.

MAXIMUM PRESSURE		
Model	Range	Maximum Pressure
WDPM-002	±2 in w.c.	10 psi
WDPM-005	±5 in w.c.	10 psi
WDPM-010	±10 in w.c.	10 psi
WDPM-020	±20 in w.c.	20 psi
WDPM-030	±30 in w.c.	20 psi
WDPM-100	±100 in w.c.	15 psi
WDPM-200	±200 in w.c.	45 psi
WDPM-400	±400 in w.c.	45 psi

Table 1

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USING WITH UHH

Pairing with Wireless Probes

- 1. Turn on Model UHH Universal Handheld by pressing the % button.
- Press the ◀ and ▶ buttons to scroll through the menu headings at the top of the display.
- 3. When **PROBE** is highlighted, hit the 4 button to access the probe menu.
- 5. When **PAIRING MODE** is highlighted, hit the % button to access the pairing mode.
- Turn on the wireless probe(s) to be paired. After a period of up to 15 to 20 seconds, the UHH screen will update with the information about the wireless probe(s) just turned on.
- Press the button to scroll through the available probes. The current selected probe will be highlighted in yellow.
- 8. When the desired probe to be paired is highlighted, hit the 4 button to pair the probe. Once it is paired, it will be removed from the list automatically.
- 9. Once all the desired probes are paired, press ◀ button.
- 10. Repeat step 9 to go back to the home screen and begin readings.

NOTICE

If a module does not appear, power the module down, then power it back on.

USING WITH UHH2 OR MOBILE METER® APP

Pairing with Wireless Probes

For the latest instructions, please refer to the "Help" button in the Options menu in the Mobile Meter® app.

- Verify that the UHH2 or handheld device has Bluetooth® technology turned on and is connected to the wireless gateway. Open the Mobile Meter® app by clicking on the icon
- 2. Press "Get Started".
- 3. Near the bottom, a pop-up will display a message that reads "Bluetooth is searching for bridges...". When a bridge is turned on and discovered by Mobile Meter® the pop-up will display "Mobile Meter has CONNECTED to the Bluetooth device: PROBEBRIDGE XXXXXX" where XXXXXX is the probe's serial number.
- 4. Click on the Options menu and select "Setup".
- 5. In the Setup page, probes can be discovered and paired to the Mobile Meter® app. After the Mobile Meter® app connects to a bridge, a probe can be discovered. To discover a probe, simply turn on the probe by pressing the button on the handle and it will show up in the Setup list.
- 6. Use the back button or navigation arrow to go back to the Probes List page.

NOTICE

It is recommended that only four probes be selected due to the bandwidth limitations between the UHH2/Mobile Meter® app and

the gateway.

WIRELESS GUIDELINES IN ACCORDANCE WITH FCC:

Changes not expressly approved by Dwyer Instruments, Inc. could void the user's authority to operate the equipment.

This product complies with FCC OET Bulletin 65 radiation exposure limits set forth for an uncontrolled environment.

Pursuant to FCC 15.21 of the FCC rules, changes not expressly approved by Dwyer Instruments, Inc. might cause harmful interference and void the FCC authorization to operate this product.

Canadian Government Guidelines:

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.

INFORMATION TO THE USER

Power Output: 6 mW

Operating Frequency: 2.4 GHz

Operating Channel: 11

Operating Mode: IEEE 802.15.4, Zigbee, Direct Sequence Spread Spectrum

Data Rate: Up to 250 kbps

Intended Use: Industrial/commercial HVAC Antenna Connection: Internal only, non-tunable

Battery Removal:

If, for some reason, the wireless probe needs to be returned to Dwyer Instruments, Inc. for maintenance or repair, the rechargeable lithium ion battery needs to be removed prior to shipping the unit. Before attempting to remove the battery ensure the probe has been powered down. To remove the battery, set the wireless probe face down on a non-abrasive surface. There are four Phillips head screws that secure the two halves of the handle together. Two are located under the serial number label at the top of the probe and two are located at the bottom of the unit. When lifting the ends of the serial label to access the screws be careful to not damage the label such that the serial number cannot be read. Remove the four screws with a suitable Phillips screw driver and set aside the back half of the housing. Remove the battery by grasping the black plastic connector on the battery wire harness and pull straight out while securing the black plastic connector on the circuit board with the other hand. Be careful to not puncture the battery as this may cause a fire. Remove the battery and set aside. Securely replace the four screws to hold the handle of the probe together. The unit may now be packaged for shipping back to Dwyer Instruments, Inc.

MAINTENANCE/REPAIR

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



This symbol indicates waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

WARRANTY/RETURN

Refer to "Terms and Conditions of Sales" 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.

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