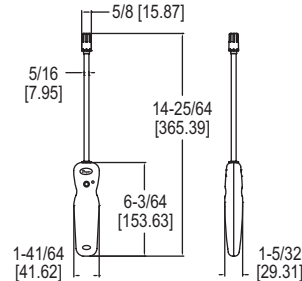




Model RP3 Wireless Thermo-Hygrometer Probe

Specifications - Installation and Operating Instructions



The **Model RP3 Wireless Thermo-Hygrometer Probe** measures relative humidity, temperature, dew point, and wet bulb temperatures when combined with the UHH4 or newer universal handheld device, or your own mobile device. In order to protect the sensor in higher air flow ducts, each probe comes with a membrane filter. Factory calibrated replacement humidity sensors can plug directly into the probe without requiring additional calibration.

Wireless probes can take measurements up to 50 feet away from the base unit. A bicolor LED flashes on the handle of the probe to indicate communication status with the base unit. The battery is rechargeable via the mini-USB connector on the bottom of the probe.

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 numérique de la classe B est conforme à la norme NMB-003 du Canada.

CHARGING BATTERY

NOTICE

It is required prior to the initial usage to charge the battery for 12 hours.

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

- Step 1: Open the USB cover on the bottom of the probe handle.
- Step 2: Plug the mini-USB connector end of the cable into the probe handle.
- Step 3: Plug the USB connector end of the cable into the port on the charger or PC.
- Step 4: Plug the charger into either an electrical outlet or car charging port (LED on the charger and the handle should both light up).
- Step 5: The LED on the handle will turn off when fully charged.
- Step 6: Remove charger from electrical outlet.
- Step 7: Remove USB connectors from the handle and the charger.
- Step 8: Replace the USB cover on the bottom of the probe handle.

SPECIFICATIONS

Service: Clean air.

Temperature Limits: Process: -4 to 140°F (-20 to 60°C); Ambient: 5 to 125°F (-15 to 51°C); Battery charging: 32 to 113°F (0 to 45°C).

Range: RH: 0 to 100% (non-condensing); Temperature: -22 to 140°F (-30 to 60°C).

Accuracy: RH: ±2% @ 25°C (10 to 90% RH); ±4% (0 to 10, 90 to 100% RH); Temperature: ±0.54°F @ 77°F (±0.3°C @ 25°C).

Response Time: 1.5 s.

Probe Length: 8" (203 mm) insertion.

Power Requirements: 3.7 V YT562447 lithium ion battery, installed functional, user replaceable.

Maximum Wireless Distance: 50' (15 m).

Handle Enclosure: Thermoplastic elastomer over polycarbonate.

Supplied With: Wrist strap.

Weight: 11.2 oz (331.22 g).

Supported Devices: UHH4 or newer universal handheld, and smart devices that support Bluetooth® LE (Bluetooth® Low Energy).

Supported Operating Systems: Android® firmware version 3.X or later, iOS® firmware version 5.X or later.

WARNING

Lithium ion polymer 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).

NOTICE

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

USING MOBILE METER® APP

To use the wireless probe with a personal device not supplied by Dwyer Instruments, Inc. you must first download the Mobile Meter® app. Once installed, the wireless probes can be connected by following the directions below.

CONNECTING TO WIRELESS PROBES

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

1. Verify that the universal handheld, UHH4 or newer, or device has Bluetooth® technology turned on and is within range. Open the Mobile Meter® app by clicking on the icon.
2. Press "Without Bridge".
3. Power on wireless probe.
4. Once discovered, the probe name will appear on the device screen.
6. Select the check box next to the desired probe names and press the back arrow to return to the probe list.

NOTICE

It is recommended that only four probes be selected due to the bandwidth limitations.

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 Mode: IEEE 802.15.4, BLE, 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 Model RP3, no routine maintenance is required. The Model RP3 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.

Android® is a registered trademark of Google, Inc.
Bluetooth® is a registered trademark of Bluetooth SIG, Inc.
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