



---

# Wey-TEK HD Wireless

## Refrigerant Charging Scale

---

PN 074-624-P1A

## **Trademarks**

The trademarks of the products mentioned in this manual are held by the companies that produce them.

Android™ and Google Play™ are trademarks of Google Inc.

Apple®, App Store® and iPhone® are registered trademarks of Apple Inc.

Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc.

All other brand and product names are trademarks or registered trademarks of their respective companies.

## **Disclaimer**

The information contained in this manual is believed to be accurate and reliable. However, INFICON assumes no responsibility for its use and shall not be liable for any special, incidental, or consequential damages related to the use of this product.

Due to our continuing program of product improvements, specifications are subject to change without notice.

## **Copyright**

©2015 All rights reserved.

Reproduction or adaptation of any part of this document without permission is unlawful.

# Declaration of Conformity

This is to certify that this equipment designed and manufactured by INFICON meets the essential safety requirements of the European Union and is placed on the market accordingly. It has been constructed in accordance with good engineering practice in safety matters in force in the Community and does not endanger the safety of persons, domestic animals or property when properly installed and maintained and used in applications for which it was made.

Equipment Description . . . . . Wey-TEK HD Wireless Refrigerant Charging Scale

Applicable Directives . . . . . EMC Directive 2004/108/EEC, Low Voltage Directive 2006/95/EC, RoHS Directive 2011/65/EU

Applicable Standards . . . . . EN 61010-1: 2010 EN 61326-1: 2006, EMC CI A, Immunity Criteria B

CE Implementation Date . . . . . January 26, 2015

Authorized Representative . . . . . Brian King  
Business Line Manager  
Service Tools  
INFICON

Any questions relative to this declaration or to the safety of INFICON products should be directed to INFICON; go to [www.inficon.com](http://www.inficon.com) and click **Support**.

FCC compliance statement:



## CAUTION

**This device complies with Part 15 of the FCC Rules. The device meets the requirements for modular transmitter approval as detailed in FCC public Notice DA00-1407 transmitter. 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.**

**This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:**

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

**To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.**



# Warranty

---

INFICON warrants your Wey-TEK HD Wireless to be free from defects of materials or workmanship for two (2) years from date of purchase. INFICON does not warrant items that deteriorate under normal use, including batteries. INFICON does not warrant any instrument that has been subjected to misuse, negligence or accident or has been repaired or altered by anyone other than INFICON. This warranty is a replacement warranty for two (2) years. INFICON will not repair a unit within the warranty period. Out of warranty repair can be arranged by returning the unit to your local distributor.



[www.inficon.com](http://www.inficon.com)    [reachus@inficon.com](mailto:reachus@inficon.com)

# Table Of Contents

Cover Page	
Trademarks	
Disclaimer	
Copyright	
<b>Introduction</b> .....	<b>1</b>
<b>Specifications</b> .....	<b>1</b>
<b>Definition of Notes, Cautions and Warnings</b> .....	<b>2</b>
<b>Weighing Platform Controls</b> .....	<b>2</b>
<b>Installing Batteries</b> .....	<b>3</b>
Installing Batteries in the Wireless Base .....	3
Installing Batteries in the Handpiece .....	3
<b>Pairing a Device with the Wireless Base</b> .....	<b>4</b>
Pairing an Android Device .....	4
Connecting an Apple iPhone with the Wireless Base .....	4
Pairing a Handpiece with the Wireless Base .....	4
<b>App Controls</b> .....	<b>5</b>
App Display .....	5
Weight .....	5
Wireless Base Battery Life .....	5
Bluetooth Connection Status .....	5
Bluetooth Auto Shut-off .....	6
Using the App to Set the Alarm .....	6
Setting the Alarm when Charging and Recovering .....	6
Pausing the Alarm .....	7
App Display Warnings in Alarm Mode .....	7
Using the App to Create Job Logs of Refrigerant Transferred .....	7
E-mail All Job Logs .....	7
E-mail a Single Job Log .....	7

PN 074-624-P1A

<b>Handpiece Controls</b> .....	8
Handpiece Display .....	9
Weight .....	9
Battery Life .....	9
Strength of Handpiece Connection with the Weighing Platform .....	9
Dimming the Handpiece Display .....	9
Handpiece Auto Shut-Off Interval .....	10
Setting the Alarm Using the Handpiece .....	10
Using the Alarm when Charging and Recovering .....	11
Pausing the Alarm .....	11
Handpiece Display Warnings in Alarm Mode .....	12
<b>Maintenance</b> .....	12
<b>How To Contact INFICON</b> .....	12
Returning Wey-TEK HD Wireless to INFICON .....	12

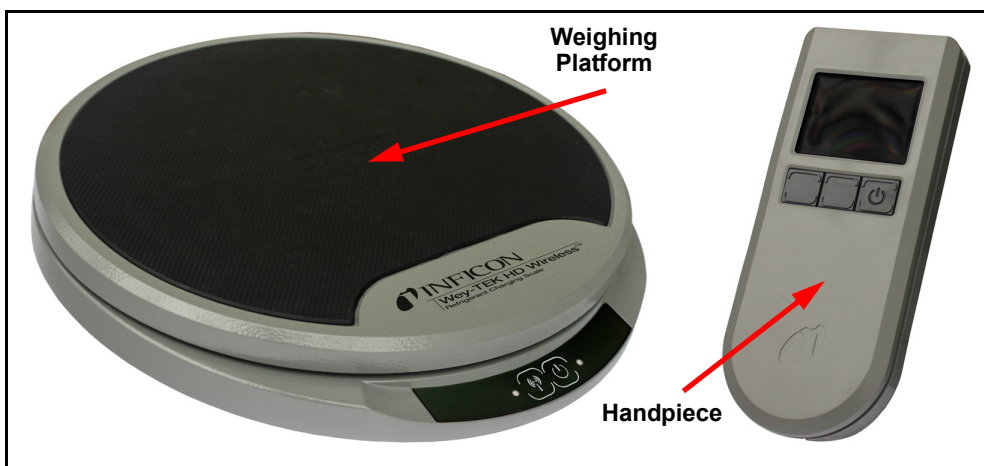
## Introduction

Wey-TEK HD Wireless is used for measuring refrigerant transferred during recovery or charging.

The Wireless Base (Weighing Platform) works with a Wey-TEK HD Wireless Handpiece and with any cell phone running Android 2.2 or Apple 4s (or higher) using the Wey-TEK HD Wireless app available on the App Store and Google Play Store.

Weighing Platforms and Handpieces are interchangeable and can be replaced without calibration.

Figure 1-1 Wey-TEK HD wireless weighing platform and handpiece



## Specifications

Usage . . . . .	Indoor or Outdoor
Maximum Measurable Weight . . . . .	115 kg (253 lb.)
Operating Temperature . . . . .	0 to +50°C (+32 to 122°F)
Storage Temperature . . . . .	-10 to +60°C (+14 to 140°F)
Humidity . . . . .	85% RH @ 45°C (113°F), Non condensing
Altitude . . . . .	2000 m (6500 ft.)
Power Supply . . . . .	8 AA alkaline batteries
Accuracy . . . . .	+/- 0.06% of reading +/-10 g (0.25 oz.)
Battery Life . . . . .	Approximately 80 hours (Actual life may vary, depending on settings for auto shut off and dimming)
Pollution Degree . . . . .	2
Overvoltage Category . . . . .	2
Weight (in case) . . . . .	3.6 kg (9 lb.)

## Definition of Notes, Cautions and Warnings

When using this manual, please pay attention to the NOTES, CAUTIONS, and WARNINGS found throughout. For the purposes of this manual they are defined as follows:

**NOTE:** Pertinent information that is useful in achieving maximum Wey-TEK HD Wireless efficiency when followed.



### CAUTION

Failure to heed these messages could result in poor Wey-TEK HD Wireless performance.



### WARNING

Failure to heed these messages could result in personal injury.

## Weighing Platform Controls

Figure 1-2 Weighing platform controls



**On/Off** ..... Press to turn the Weighing Platform on or off.

**Bluetooth Pair** ..... Press to pair to a Handpiece or cell phone with the Weighing Platform.



## ***Installing Batteries***

Wey-TEK HD Wireless is powered by eight AA alkaline batteries, four in the Handpiece and four in the Weighing Platform.

### ***Installing Batteries in the Wireless Base***

- 1** Turn the Weighing Platform over to gain access to the battery access door.
- 2** Remove the screw that retains the battery access door.
- 3** Slide the battery access door off of the Weighing Platform.
- 4** Insert new batteries, observing for proper polarity.
- 5** Slide the battery access door back in place.
- 6** Install the battery access door retaining screw.

### ***Installing Batteries in the Handpiece***

- 1** Turn the Handpiece over to gain access to the battery access door.
- 2** Remove the screw that retains the battery access door.
- 3** Slide the battery access door off of the Handpiece.
- 4** Insert new batteries, observing for proper polarity.
- 5** Slide the battery access door back in place.
- 6** Install the battery access door retaining screw.

## ***Pairing a Device with the Wireless Base***

### ***Pairing an Android Device***

Requirement: Android 2.2 or higher with the Wey-TEK HD app installed.  
The app is available on the Google Play Store. Search **INFICON** or **Weytek** on the store to acquire the app.

- 1** Turn on the Android device.
- 2** Turn on Bluetooth.
- 3** Press and hold **On/Off** on the Weighing Platform.
- 4** Press **Bluetooth Pair**. The yellow indicator will change from flashing to solid.
- 5** Open the Wey-TEK HD Wireless Android app.
- 6** Tap **Connect To Scale**. A list of devices will display.
- 7** Tap **Scan For Devices**.
- 8** Tap **Scale**. The yellow indicator will extinguish when pairing is complete.

### ***Connecting an Apple iPhone with the Wireless Base***

Requirement: Apple iPhone 4s or higher with the Wey-TEK HD app installed.  
The app is available on the App Store. Search **INFICON** or **Weytek** on the store to acquire the app.

- 1** Turn on the Apple iPhone.
- 2** Turn on Bluetooth.
- 3** Press and hold **On/Off** on the Weighing Platform.
- 4** Open the Wey-TEK HD Wireless app.
- 5** Tap **Connect To Scale**. A list of devices will display.
- 6** Tap **Scale**. The flashing yellow indicator will extinguish when connection is complete.

### ***Pairing a Handpiece with the Wireless Base***

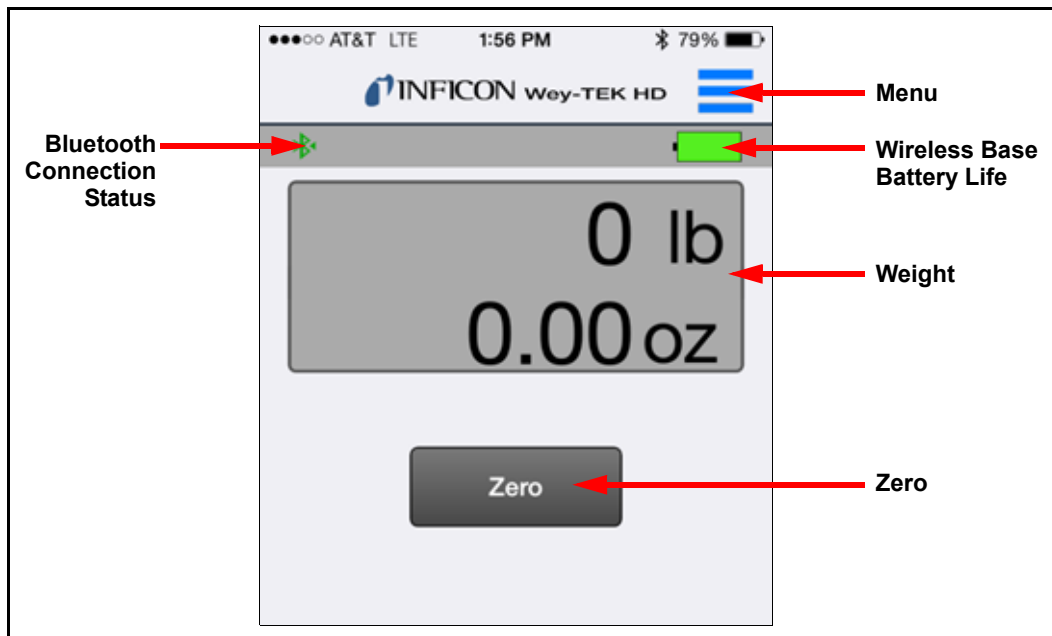
A new or replacement Wey-TEK HD Handpiece must be paired with the Wireless Base.

- 1** Press and hold **On/Off** on the Handpiece.
- 2** Press and hold **On/Off** on the Weighing Platform.
- 3** Press **Bluetooth Pair**. The yellow indicator will change from flashing to solid.
- 4** Press **Menu**, scroll down and select **Pair With Base**.
- 5** Press **Start**. The flashing yellow indicator will extinguish when pairing is complete.

## App Controls

### App Display

Figure 1-3 App display



### Weight

Indicates the weight placed on, or taken off, the Weighing Platform in positive and negative values.

**Over Capacity** is displayed when the weight exceeds the weight limit.

### Wireless Base Battery Life

Wireless Base battery life is displayed as an icon in the upper right pane of the App display. The icon is:

- ◆ **Green** when battery charge is good.
- ◆ **Red** when the battery requires replacement.

### Bluetooth Connection Status

Bluetooth connection is displayed as an icon in the upper left portion of the App. The icon is:

- ◆ **Red** when Bluetooth is disconnected from the Wireless Base or when the phone's Bluetooth is off.
- ◆ **Blue** when Bluetooth is disconnected, but phone is searching for a connection with the Wireless Base.
- ◆ **Green** when the Wireless Base and phone are connected.

## Bluetooth Auto Shut-off

The Wireless Base will shut-off automatically when the Bluetooth connection is absent for five minutes, except when Wey-TEK HD Wireless is in Alarm mode.

## Using the App to Set the Alarm

When set, a ringtone will be heard when the set target charge weight is reached.



### **WARNING**

---

**Wey-TEK HD Wireless does not stop refrigerant flow when the set target charge is reached.**

---

## Setting the Alarm when Charging and Recovering

- 1 Tap **Menu**.
- 2 Tap **Start Alarm**. The **Target Charge Amount** screen will display.
- 3 Enter the target weight.
- 4 Set the refrigerant cylinder to be charged or recovered on the Weighing Platform.
- 5 Tap **OK**.
- 6 Open the valve on the refrigerant cylinder.
- 7 The target charge amount will be displayed on the bottom and current weight transferred will be displayed in large numbers on the top.
- 8 When the weight transferred is within 10% of the target charge amount, a ringtone is heard and **Approaching Weight** is displayed.
- 9 When the target charge amount is reached, a ringtone is heard and **Alarm Complete** is displayed.
- 10 Close the valve on the refrigerant cylinder.
- 11 Tap **Exit** to return to the basic weighing function.

**NOTE:** You will be prompted to save a job log. (See [Using the App to Create Job Logs of Refrigerant Transferred.](#))



### **CAUTION**

---

**Alarm mode will not work when disconnected from base or outside of connection range**

---

### ***Pausing the Alarm***

- 1** Close the valve on the refrigerant cylinder.
- 2** Tap **Pause**.
- 3** Change the refrigerant cylinder.
- 4** Tap **Resume**.
- 5** Open the valve on the refrigerant cylinder.

### ***App Display Warnings in Alarm Mode***

**Low Flow Warning** . . . . . Refrigerant weight has not changed more than 30 grams in two minutes.

**Approaching Weight** . . . . . Refrigerant charge is within 10% of target charge.

### ***Using the App to Create Job Logs of Refrigerant Transferred***

- 1** When the target charge amount is reached, a ringtone is heard and **Alarm Complete** is displayed.
- 2** Tap **Exit**.
- 3** You will be prompted to save a job log.
- 4** If desired, tap the job log filename and change it.

### ***E-mail All Job Logs***

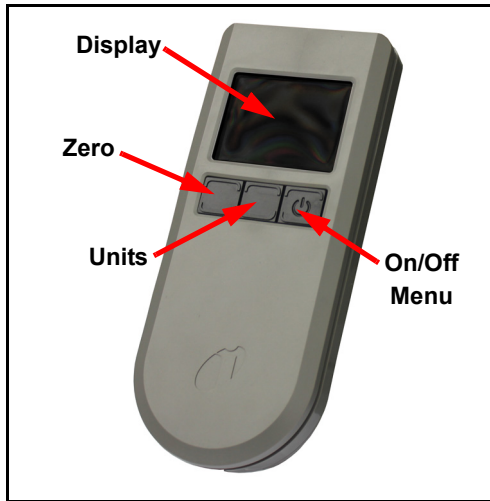
- 1** Tap **Email all**.
- 2** The device-default e-mail will be displayed with all job logs attached.

### ***E-mail a Single Job Log***

- 1** Tap **Job**.
- 2** Tap **Export weights to csv**.
- 3** The device-default e-mail will be displayed with the single job log attached.

# Handpiece Controls

Figure 1-4 Handpiece controls



**NOTE:** Wey-TEK HD Wireless button function will change depending on the mode or screen display.

- On/Off** ..... Press and hold for one second to turn the Wey-TEK HD Wireless Handpiece on or off.
- Menu** ..... Available options display.
- Units** ..... Press to toggle display between:  
 decimal pounds (XXX.XX lb)  
 pounds and ounces (XXX lb XX.XX oz)  
 kilograms (XXX.XX kg)  
 ounces (XXX.XX oz)
- Zero** ..... Manually zero (tare) Wey-TEK HD (weight display screen only)

## ***Handpiece Display Weight***

Indicates the weight placed on, or taken off, the Weighing Platform in positive and negative values.

If the weight exceeds the weight limit, **Over Capacity** is displayed and a beeping sound will be heard until the weight is removed.

## ***Battery Life***

Handpiece battery life is displayed as an icon in the upper right portion of the display.

Weighing Platform battery life is displayed as an icon located at the left of the Handpiece battery icon.

The battery icon will:

- ◆ Illuminate **red** to indicate that the batteries are nearing the end of their life.
- ◆ Flash and **Change Battery** will display to indicate that the batteries have reached the end of their life. The batteries must be changed.

## ***Strength of Handpiece Connection with the Weighing Platform***

The strength of the connection to the platform is displayed as an icon in the upper left of the display, next to the battery icon.

- ◆ When connected, the connection strength icon illuminates black with bars indicating connection strength.
- ◆ When not connected, the connection strength icon illuminates **red**.

## ***Dimming the Handpiece Display***

To conserve battery life, the Handpiece display can be set to dim at intervals of 15 seconds, 1 minute or 5 minutes (default). The Handpiece display can be set to always remain on. The dimming interval is set at the Handpiece.

If the display has dimmed, press any button to return the display.

To set the Handpiece dimming interval:

- 1** Press **Menu**.
- 2** Press ▼ and select **Dim the Display**.
- 3** Press **Change** to select the desired interval.

## **Handpiece Auto Shut-Off Interval**

To conserve battery life, automatic shut-off intervals can be set that will power down the Handpiece after a set amount of time.

Auto shut-off intervals are 30 (default), 60 or 90 minutes. The Handpiece can be set to always remain on.

The Wireless Base will shut-off automatically when Bluetooth connection is absent for five minutes, except when Wey-TEK HD Wireless is in Alarm mode.

To set the Auto shut-off interval:

- 1** Press **Menu**.
- 2** Press ▼ and select **Auto Power Off**.
- 3** Press **Change** to select the desired interval.

## **Setting the Alarm Using the Handpiece**

When the target charge amount is reached, a beep will be heard and the Handpiece will display **Alarm Complete**.



### **WARNING**

---

**Wey-TEK HD Wireless does not stop refrigerant flow when the set target charge is reached.**

---



## Using the Alarm when Charging and Recovering

- 1 Press **Menu**.
- 2 Press **Enter** to set the alarm.
- 3 The target charge amount screen will display. One digit will be highlighted by a blue cursor.
- 4 Press **▲** to add one to the highlighted number.
- 5 Press **▶/0** to highlight the next number.  
**NOTE:** Press and hold **▶/0** for one second to reset the entire amount to zero.
- 6 When the target charge or recovery amount has been entered, press **Set**. The target amount will be displayed.
- 7 Set the refrigerant cylinder to be charged or recovered on the Weighing Platform.
- 8 Press **Start** to enable the alarm.
- 9 Open the valve on the refrigerant cylinder.
- 10 The target charge amount will be displayed on the bottom and current weight transferred will be displayed in large numbers on the top.
- 11 When the weight transferred gets to within 10% of the target charge amount, a sound will be heard and the Handpiece will display **Approaching Weight**.
- 12 When the target charge amount is reached, a beep will be heard and the Handpiece will display **Alarm Complete**.
- 13 Close the valve on the refrigerant cylinder.
- 14 Press **Exit**.



### CAUTION

---

**Alarm mode is disabled when the Handpiece is disconnected from Weighing Platform.**

---

## Pausing the Alarm

- 1 Close the refrigerant cylinder valve.
- 2 Press **Pause** on the Handpiece.
- 3 Change the refrigerant cylinder.
- 4 Press **Resume** in Handpiece.
- 5 Open the refrigerant cylinder valve.

### **Handpiece Display Warnings in Alarm Mode**

- Low Flow Warning** . . . . . Refrigerant weight has not changed more than 30 grams in two minutes.
- Approaching Weight** . . . . . Refrigerant charge is within 10% of target charge.

## **Maintenance**

There are no user serviceable components within the Wey-TEK HD Wireless Handpiece and Weighing Platform case. Refer all maintenance to INFICON.

## **How To Contact INFICON**

For worldwide support information, go to [www.inficon.com](http://www.inficon.com) and click **Support**. Please have the following information readily available:

- ◆ the serial number of your Handpiece and Weighing Platform
- ◆ a description of the problem
- ◆ an explanation of any corrective action already attempted

## **Returning Wey-TEK HD Wireless to INFICON**

Do not return any component of Wey-TEK HD Wireless to INFICON before speaking with a Customer Support Representative and obtaining a Return Material Authorization (RMA) number. Wey-TEK HD Wireless will not be serviced without an RMA number.