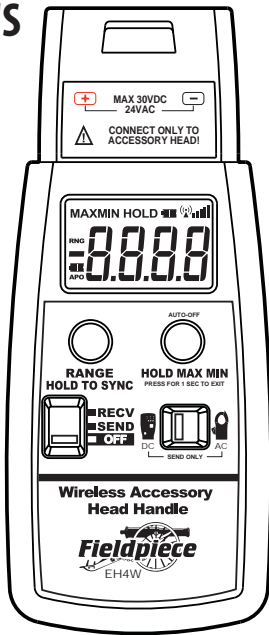


# Fieldpiece

## Wireless Electronic Accessory Head Handle

### OPERATOR'S MANUAL

Model EH4W



## Quick Start

### Wireless Operation

1. Select DC or AC switch position, depending on accessory head.
2. Select RECV or SEND, depending on operation you want to perform.
3. Hold SYNC for one second. Search pattern will initiate on display while searching for partner device.
4. Set partner device to appropriate switch position.
5. Hold SYNC on partner device for one second. Signal bars and battery info of partner device will display on EH4W when connection is made.
6. Enjoy the wireless goodness!

### Certifications



C-Tick (N22675)  
CE EN 61326-1  
FCC  
WEEE  
RoHS compliant

## Description

As a new owner of EH4W you can now wirelessly receive measurements from anywhere on the jobsite and be free from tangled wires. Your EH4W can be set up to send you indoor wet bulb measurements over-the-air for real-time target superheat calculations while you are outside at the condenser taking actual superheat readings.

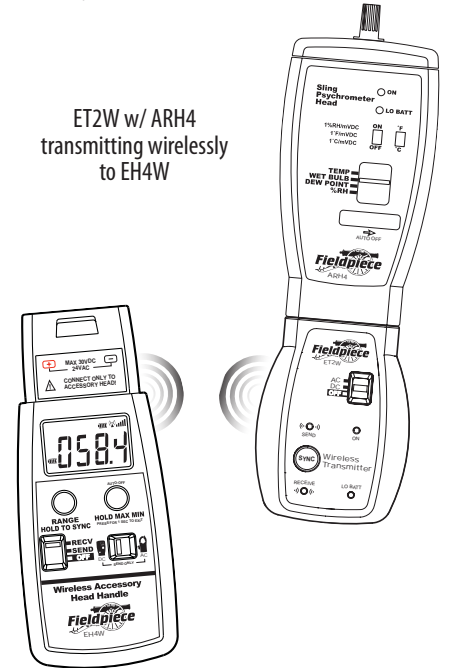
Take measurements in multiple places at once and have them sent wirelessly to you anywhere you are on the jobsite.

Your EH4W can wirelessly receive measurements from any Fieldpiece transmitters and display the readings wherever you are on the job.


EH4W also converts any Fieldpiece accessory head into a wireless transmitter to send your measurement over-the-air to a Fieldpiece wireless receiver like the HG3, LT17AW, or EH4W. This allows you to set up your accessory heads and monitor your measurements from anywhere on

the jobsite.

Your EH4W easily syncs with compatible wireless Fieldpiece transmitters and receivers. EH4W has a wide wireless range to cover the whole jobsite.



## Specifications

**Wireless range:** Up to 75 feet (23m) line of sight  
**Minimum Wireless Distance:** Up to 1 foot (30cm)  
**Wireless Frequency:** 910MHz to 920MHz (US), 868.1MHz to 868.5MHz (European)  
**Display:** 5000 count FSTN LCD  
**Measurement Rate:** 2.5 times per second, nominal  
**Overrange:** (OL) or (-OL) is displayed  
**Accuracy:** Stated at 73°F ± 9°F (23°C ± 5°C), <75% RH  
**Temperature Coefficient:** 0.1 x (specified accuracy) per °C [0°C to 19°C (32°F to 66°F), 28°C to 50°C (82°F to 122°F)]  
**Auto Power Off:** Approx. 30 minutes  
**Low battery indicators:** An empty battery icon  on LCD will indicate when batteries must be replaced. Battery in lower left is for EH4W. Battery in upper right is for partner device.  
**Power:** Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22  
**Battery life:** 200 hrs typical with alkaline  
**Operating environment:** 32°F to 122°F (0°C to 50°C) at <70% relative humidity  
**Storage temperature:** -4°F to 140°F (-20°C to 60°C), 0 to 80% RH (with battery removed)  
**Dimensions:** 140mm(H) x 59.2mm(W) x 33mm(D)  
**Weight:** Approx. 125g including battery  
**Safety:** Designed to meet CE-EMC.




### DC Volts:

Ranges: 500mV, 5000mV (Auto)  
Resolution: 0.1mV (500mV), 1mV (5000mV)  
Accuracy: ±(0.5%rdg + 3dgts)  
Input Impedance: 1MΩ  
Input protection: Max 30 VDC or 24VAC rms

### AC Volts (50Hz - 500Hz)

Ranges: 500mV, 5000mV (Auto)  
Resolution: 0.1mV (500mV), 1mV (5000mV)  
Accuracy: ±(1.2%rdg + 6dgts), 50Hz-100Hz  
±(1.5%rdg + 6dgts), 100Hz-500Hz  
Input Impedance: 1MΩ  
Input protection: Max 30 VDC or 24VAC rms

### Safety Symbols Used

-  Caution, refer to manual.
-  Ground
-  Double Insulation

### WARNINGS

Use only with Fieldpiece accessory heads. Accessory heads deliver low voltage (under 2V) to the EH4W. Voltages higher than 30VDC or 24VAC rms can damage the EH4W.

**DO NOT CONNECT EH4W TO LINE VOLTAGE!**

## How to Use Normal Display Mode

1. Connect any Fieldpiece accessory head to EH4W.
2. Select DC switch position for all accessory heads expect the ACH4 current clamp (AC).
3. Select SEND switch position.

### Transmitter Mode

#### EH4W

1. Connect any Fieldpiece accessory head to the EH4W by sliding it onto the top of the handle.
2. Select AC switch position for ACH4 current clamp or DC for all other accessory heads.
3. Hold the RANGE (SYNC) button for one second.

Note: Search pattern on LCD will initiate. Once a connection is made, the signal bars will stay solid representing signal strength.

Note: The signal strength and battery condition of the EH4W will be displayed on the receiver LCD when a connection is made.

played on the receiver LCD when a connection is made.

Note: If no signal is found within two minutes, EH4W will turn off.

#### Receiver (LT17AW, EH4W, HG3)

4. Select RECV switch position. Hold SYNC button for one second. For HG3, highlight the test line and hold SYNC button for one second.

Note: If no signal is found in two minutes, NSG will display. Press SYNC button for one second to re-sync.

### Receiving Mode

#### EH4W

1. Select RECV switch position. Then Hold RANGE (SYNC) button until it beeps.

Note: If no signal is found within two minutes, EH4W will stop searching. Once connection is made, the signal strength and battery life of the partner device will be displayed on EH4W.

#### Transmitter (ET2W)

1. Connect any Fieldpiece accessory

head.

2. Select AC switch position for ACH4 or DC for all other accessory heads.
3. Hold SYNC button for one second.

#### Transmitter (EH4W)

1. Connect any Fieldpiece accessory head.
2. Select SEND switch position. Hold RANGE button until beeps to sync.

#### Transmitter (LT17AW)

1. Select the desired measurement range on the dial.
2. Hold SYNC button for one second.

### Auto-Connection

The above operations are to synchronize wireless devices for the first time. When powered on, EH4W will automatically connect to the last single-link receiver (LT17AW, ET2W, or EH4W) or transmitter it was synchronized to. No need to constantly sync the same pair.

### Data Hold, Max, Min

Data Hold, Max, and Min are only used when EH4W is in SEND switch position. Data Hold, Max, and Min are disabled in RECV switch position.

1. Press HOLD/MAX/MIN to freeze the current reading on the display.
2. Press HOLD/MAX/MIN again to show the highest (MAX) reading. Press HOLD/MAX/MIN a third time to show the lowest (MIN) reading.
3. Pressing HOLD/MAX/MIN will cycle through these settings in the above order.
4. Hold the HOLD/MAX/MIN button for one second to exit and return to real-time display.


### Auto Power Off

Auto Power Off (APO) is automatically disabled when EH4W is wirelessly connected to a partner device. APO can be manually disabled by holding the HOLD/MAX/MIN button while turning the switch from OFF to any other switch position.

## Maintenance

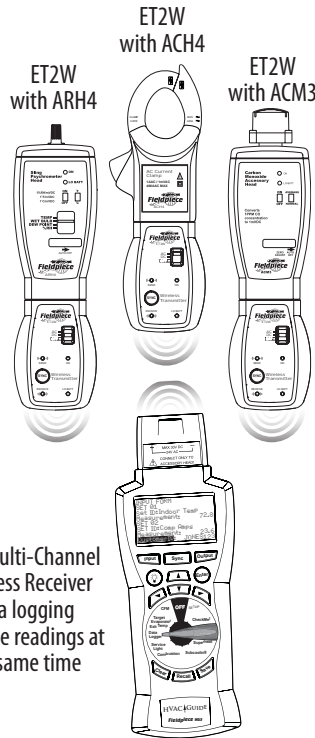
Clean the exterior with a dry cloth. Do not use liquid.

### Battery Replacement

The battery on the EH4W must be replaced when the lower left battery icon () is empty. At this point, the EH4W will display "bAtt" on the screen accompanied by a continuous beep. The meter will turn off in 5 seconds and no further measurement will be allowed until the battery is replaced.

## More Wireless...

Easily add to your wireless arsenal any Fieldpiece accessory head with ET2W transmitters. HG3 Multi-Channel Wireless Analyzer receives wireless readings from multiple transmitters.



HG3 Multi-Channel Wireless Receiver data logging multiple readings at the same time

Test Equipment Depot  
1-800-517-8431

99 Washington Street  
Melrose, MA 02176  
Phone 781-665-1400  
Toll Free 1-800-517-8431

Visit us at [www.TestEquipmentDepot.com](http://www.TestEquipmentDepot.com)

Limited Warranty

In the USA, this meter is warranted against defects in material or workmanship for one year from date of purchase. Fieldpiece will replace or repair the defective unit, at its option, subject to verification of the defect. This warranty does not apply to defects resulting from abuse, neglect, accident, unauthorized repair, alteration, or unreasonable use of the instrument.

Any implied warranties arising from the sale of a Fieldpiece product, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the above. Fieldpiece shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim of such damage, expenses, or economic loss. State laws vary. The above limitations or exclusions may not apply to you.

For Service

In the USA, call Fieldpiece Instruments for one-price-fix-all out of warranty service pricing. Send check or money order for the amount quoted. Send the meter freight prepaid to Fieldpiece Instruments. Send proof of date and location of purchase for in-warranty service. The meter will be repaired or replaced, at the option of Fieldpiece, and returned via least cost transportation. Outside of the USA, please visit [www.fieldpiece.com](http://www.fieldpiece.com) for service contact information.

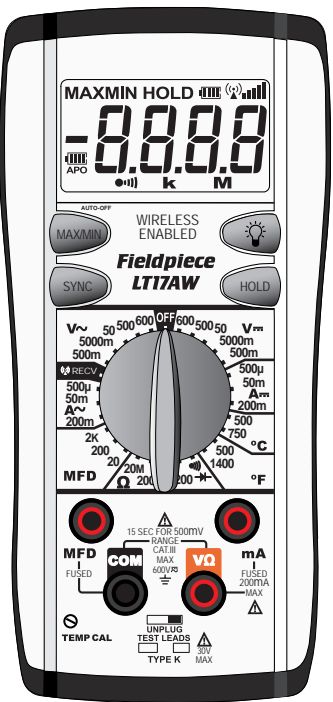
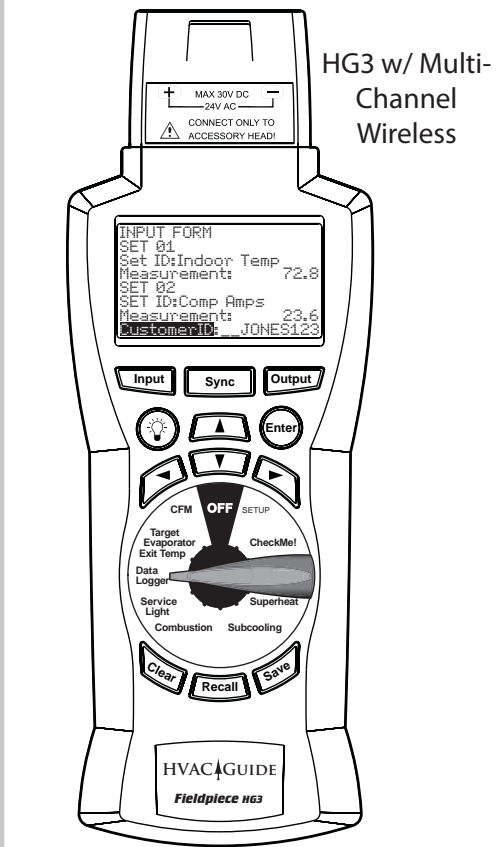
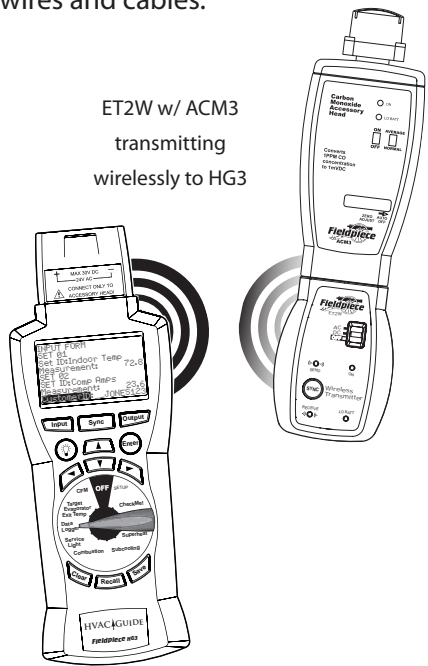


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More Fieldpiece for HVAC

Compatible Wireless Tools

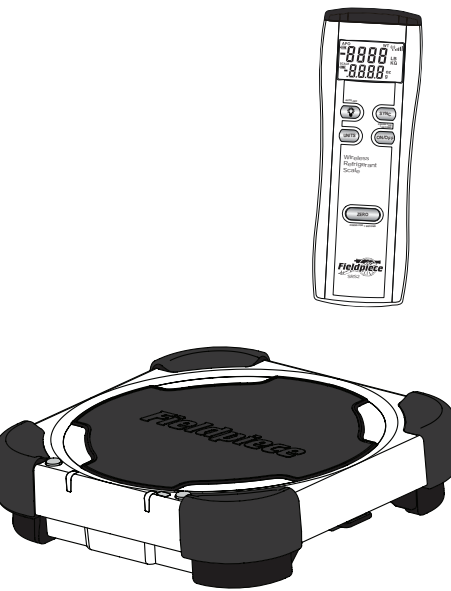
Fieldpiece offers other wireless solutions to further eliminate awkward wires and cables.



LT17AW w/ Built-in Wireless  
Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176  
[TestEquipmentDepot.com](http://TestEquipmentDepot.com)

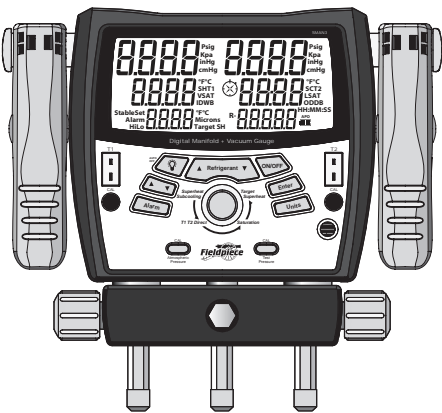
SRS2C Wireless Scale

SRS2C is the only wireless refrigerant scale in the HVAC industry.



SMAN3 Digital Manifold

SMAN3 is the most advanced digital manifold w/ micron gauge on the market. Check it out.



Refrigerant Leak Dectectors

SRL2 IR Refrigeant leak dectector is advanced technology in your hand to pinpoint those tough leaks. SRL8 Headed-Diode Refrigerant leak detector is method you know, but packed with more features.

