

# Fieldpiece

## Job Link™ Premium Pipe Clamp Probe (1/4" to 1 3/8")

### OPERATOR'S MANUAL

Model JL3PC



www.fieldpiecejoblink.com

## Quick Start

- 1 Install the Fieldpiece Job Link™ app on your mobile device and sign up for an account if you're a new user.
- 2 Remove the single screw from the top rubberized battery cover and install 2xAAA batteries.
- 3 Press  $\Phi$  for 1 second to power on.
- 4 Open Measurements in the Job Link™ app and favorite the probe to the tool manager.
- 5 View live measurements on your mobile device up to 350 feet away.

## Certifications



EN 300 328



FCC ID: 2ALHR003



RCM



WEEE



RoHS Compliant

## Description

The JL3PC Job Link™ Premium Pipe Clamp Probe sends long range wireless pipe temperature measurements directly to the Fieldpiece Job Link™ mobile app. Take advantage of the Rapid Rail™ sensor for extremely fast and accurate measurements that surpasses California's Title 24 requirements.

The Rapid Rail™ sensor is specifically designed to work on HVACR electrically (and thermally) conductive piping. It uses the pipe itself to complete the circuit so ambient air does not affect testing, resulting in the highest temperature accuracy!

Navigate cramped spaces using the narrow jaw. Rubberized grips and ergonomic design supply comfort and control. Work on a wide range of pipes from 1/4" to 1-3/8". Pipe diameters are etched into sides of the clamp for quick reference.

## What's Included

- Job Link™ Premium Pipe Clamp Probe
- 2 x AAA Batteries
- Emery Cloth for Cleaning Pipes
- Operator's Manual
- 1 Year Limited Warranty

## FCC Statement

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 of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. 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.

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Orange, CA 92867

## Limited Warranty

This probe is warranted against defects in material and workmanship for one year from date of purchase from an authorized Fieldpiece dealer. 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.

## Obtaining Service

Visit [www.fieldpiece.com/rma](http://www.fieldpiece.com/rma) for the latest information on how to obtain service.

**Fieldpiece**  
Designed in USA  
MADE IN TAIWAN

www.fieldpiece.com

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# Operation



Press for 1 second to power ON/OFF.

## LED Color Indications

Green slow blink: normal operation

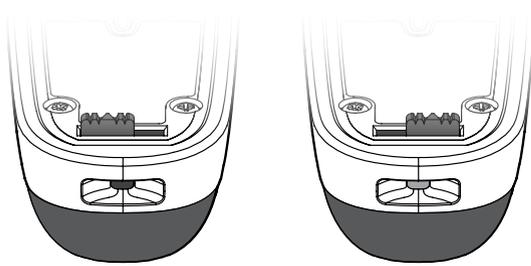
Yellow blink: open thermocouple circuit

*JL3PC requires electrical continuity with the pipe. Clean pipe surface if necessary.*

Red slow blink: batteries need to be replaced

## High or Low Side Switch

The Job Link™ app knows which side you have selected for each probe. Select **Suction** line or **Liquid** line and place it on the system appropriately.



Suction Line  
(Low Side)  
(Blue)

Liquid Line  
(High Side)  
(Red)

## Rapid Rail™ Sensor Advantage

Traditional pipe clamps sit on top of the pipe surface. Some sensors touch the pipe, some have a material between the pipe and the sensor. Those sensors can be affected by wind, heat, corrosion, insulation, paint, dirt, etc.

The Rapid Rail™ sensor uses the pipe itself to complete the thermocouple circuit. The pipe is part of the sensor! If you get a measurement, you know it's accurate.

Because the pipe *is* the thermocouple junction, all you need is enough contact for conductivity. This means the clamp can sit on an angle or on a bend without loss in performance.

There is a beeper and an LED to indicate whether or not the circuit is closed and a temperature is being measured:

**Double beep and yellow LED = Open Circuit**  
**Single beep and green LED = Closed Circuit**

If you don't get a measurement, there's something on the pipe that's blocking the electrical circuit (and accuracy). Sometimes you can slightly rotate the clamp back and forth around the pipe to cut through contaminants. Sometimes you need to clean the pipe a bit with emery cloth.

## Remote Data Logging

*(Data logging will be available shortly after time of printing. Look for Job Link™ app updates.)*

Use the Job Link™ app to program the JL3PC to log measurements starting at a specific time of day for up to 7 days. Auto power off disables.

- 1 Make sure JL3PC is powered OFF.
- 2 Open the Job Link™ app.
- 3 Press ⏻ on JL3PC for 5 seconds to enter data logging mode. The LED will shine solid green.
- 4 Set up the probe's data logging parameters within the app. The LED will blink green while the app is sending setup instructions. The LED will slow blink blue when waiting for programmed start time to occur.
- 5 Place the JL3PC on the system.
- 6 When the programmed start time is reached, the LED will very slowly blink green to indicate data logging has begun.
- 7 When the programmed span has finished, the LED blinks and powers OFF.
- 8 Repeat steps 1-3 and use the Job Link™ app to extract your data log from the JL3PC.

### WARNING

The entire JL3PC may become hot when testing hot pipes or cylinders. Use caution handling.

## Auto Power Off (APO)

If the clamp hasn't been opened/closed or the button pressed, it will automatically power off after 2 hours. To disable APO until powered off, while power is on tap ⏻ twice. The LED will briefly blink red. To enable APO, while power is on tap ⏻ twice. The LED will briefly shine red.

## Maintenance

**CLEANING:** Clean the exterior with a damp cloth. Do not use detergents or solvents.

**BATTERIES:** When the LED slow blinks Red, the batteries must be replaced. Ensure the power is OFF. Remove the single screw from the top rubberized battery cover. Install 2 x AAA batteries. You can also monitor battery life in the Job Link™ app tool manager.

**CALIBRATION:** The JL3PC is wireless so it doesn't need to be calibrated as often as wired thermocouples. To verify accuracy, submerge just the sensor into ice water. Depending on atmospheric pressure and water purity, the measurement will be 32°F ± 1°F. If calibration is required, use the tool manager in the Job Link™ app to adjust the offset for that particular tool.

# Specifications

### Minimum Device Requirement:

BLE 4.0 devices running iOS® 7.0 or Android™ 5.0  
(Latest compatibility at [www.fieldpiece.com](http://www.fieldpiece.com))

**Pipe Contact Surface Compatibility:** Electrically conductive

**Pipe Size Compatibility:** 1/4" to 1 3/8" (6.4mm to 34.9mm) OD

**Sensor Type:** Rapid Rail™ thermocouple  
(nickel chromium / nickel aluminum)

**Measurement Feedback:** Beeper and LED

**Measurement Range:** -50°F to 257°F (-46°C to 125°C)

Plastic body and wire insulation are designed to withstand a maximum continuous temperature of 257°F (125°C).

**Stabilization Time:** 3 seconds typical

**Accuracy:** ±1.0°F (±0.6°C) \*

\*Meets California's Title 24 requirements

**Battery Type:** 2 x AAA, NEDA 24A, IEC LR03

**Battery Life:** 150 hours typical alkaline. LED blinks red when battery replacement is needed.

**Auto Power Off:** 2 hours (APO can be disabled)

**Wireless Range:** 350 feet (107 meters) line of sight.

Obstructions affect distance.

**Radio Frequency:** 2.4 GHz

**Operating Environment:** 32°F to 122°F (0°C to 50°C) at <75% RH

**Storage Temperature:** -4°F to 140°F (-20°C to 60°C), 0 to 80% RH  
(with batteries removed)

**Temperature Coefficient:** 0.1 x (specified accuracy) per 0.6°F  
(32°F to 64°F, 82°F to 122°F), per 1°C (0°C to 18°C, 28°C to 50°C)

**Weight:** 0.33 lbs (150 g)

**Water Resistant:** Designed to IP55

**Patent:** Pending