# *Fieldpiece*

Job Link® System Premium Large Pipe Clamp Probe (3/4" to 4 1/8")



### **Ouick Start**

- Install the Fieldpiece Job Link® system app on your mobile device and sign up for an account if you're a new user.
- 2 Remove the screws of the battery cover and install 2 x AAA batteries.
- 3 Press & for 1 second to power on.
- 4 Open Measurements in the Job Link® app and favorite the probe to the tool manager.
- 5 Viewlive measurements on your mobile device from up to 350 feet away.

#### What's Included

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

#### WARNING

The entire JL3LC may become hot when testing hot pipes or cylinders. Use caution when handling.

### Description

The JL3LC Job Link® System Premium Large Pipe Clamp Probe sends long-range wireless pipe temperature measurements directly to the Fieldpiece Job Link® system mobile app. Take advantage of Rapid Rail<sup>™</sup> sensor technology for extremely fast and accurate measurements that surpasses Title 24 requirements.

The Rapid Rail<sup>™</sup> thermocouple is specifically designed to work on HVACR electrically conductive piping and uses the pipe itself to complete the circuit, resulting in the high temperature accuracy!

The perfect balance of size and capability allows for quick deployment on a system. The grooved handle inspires confidence when gripping. Work on a wide range of pipes from residiential suction lines to large commercial systems.

### 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 screws from the battery cover. Install 2 x AAA batteries. You can also monitor battery life in the Job Link® app tool manager.

**CALIBRATION**: The JL3LC 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 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)

**Pipe Contact Surface Compatibility:** Electrically conductive

Pipe Size Compatibility: 3/4" to 4 1/8"

(19.05mm to 104.775mm) OD

**Sensor Type:** Rapid Rail<sup>™</sup> 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:**  $\pm 4^{\circ}F$  ( $\pm 2.2^{\circ}C$ ) thermocouple only  $\pm 1.0$ °F ( $\pm 0.6$ °C) after field calibration\* \*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:**  $-4^{\circ}F$  to  $122^{\circ}F$  ( $-20^{\circ}C$  to  $50^{\circ}C$ ) at <75%

**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 1.8°F (-4°F to 64°F, 82°F to 122°F), per 1°C (-20°C to 18°C, 28°C to 50°C)

**Weight:** 0.61 lbs (277 a)

**US Patent:** www.fieldpiece.com/patents

www.fieldpiecejoblink.com

### Operation



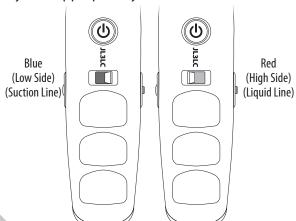
Press for 1 second to power ON/OFF.

#### **LED Color Indications**

Green slow blink: normal operation Yellow blink: open thermocouple circuit Red slow blink: batteries need to be replaced

#### **High or Low Side Switch**

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



#### Rapid Rail™ Sensor Advantages

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. They 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 correct.

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 sand the pipe a bit.

#### **Remote Data Logging**

Use the Job Link® system mobile app to program the JL3LC to log measurements starting at a specific time of day for up to 7 days. Auto power off disables.

- 1 Make sure JL3LC is powered OFF.
- 2 Open the Job Link® system mobile app.
- 3 Press & 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 JL3LC 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 app to extract your data log from the JL3LC.

#### **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. 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**

For international customers, warranty for products purchased outside of the U.S. should be handled through local distributors. Visit our website to find your local distributor.



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## Certifications and Module IDs



EN 300 328

FC 2ALHRJL3LC

IC: Industry Canada

22518-JL3LC



Regulatory Compliance Mark



Waste Electrical and Electronic Equipment



Restriction of Hazardous **Substances Compliant** 

### 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.
- . 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.

**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.

This device complies with Industry Canada licence-exempt RSS-247 standard. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement: This equipment complies with IC RSS-102 radiation exposure limit set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

IC Caution: This device complies with Industry Canada licenceexempt RSS standard(s).

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le

brouillage est susceptible d'en compromettre le fonctionnement.

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