

# Fieldpiece

## Job Link® System Manometer Probe

OPERATOR'S  
MANUAL  
Model JL3MN



### Quick Start

- 1 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 single screw of the yellow battery cover and install 2 x AAA batteries.
- 3 Press  $\Phi$  for 1 second to power on.
- 4 Open Measurements in the Job Link app and favorite the probe in the tool manager.
- 5 Tap  $\Phi$  to zero.
- 6 View live measurements on your mobile device up to 1000 feet (305 meters) away.

### What's Included

- Job Link® System Manometer Probe
- 2 x AAA Batteries
- Tubing with brass fitting
- Bulk tubing
- Gas adapter
- Static pressure tip
- Operator's manual
- 1 Year limited warranty

### Description

The JL3MN Job Link® System Manometer Probe sends static pressure or gas pressure measurements directly to the Fieldpiece Job Link app up to 1000 feet (305 meters) away.

Use two JL3MN probes to do even more. Because they are untethered, you don't need long hoses to measure differential pressures. Measure and view real-time return static, supply static, and total external static pressure all at once. Use your static pressure tip with short tubing for accurate static pressure measurements. Measure real-time inlet and manifold pressures with 2 Job Link manometers.

Mount your manometer to equipment for hands free use in tight spaces. The powerful rotating magnet holds tight even when the hose is tugged or the equipment shakes. Slide the switch and the app immediately knows which side of the system you're going to place your manometer probe.

### Maintenance

**CLEANING:** Clean the exterior with a damp cloth. Do not use detergents or solvents. Do not apply pressurized air into the connection port.

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

**SENSOR CARE:** Store JL3MN in a protective cover when not in use to prevent debris or foreign contaminants from entering the barb tip. Do not pressurize the probe above its max specification.

#### WARNING

Prevent damage, do not drill holes blindly into a plenum that houses the evaporator or heat exchanger.  
Do not place any part of the manometer on hot surfaces such as exhaust fumes. Doing so can cause personal injury, damage equipment, and void warranty.  
Do not apply more than 11.6 psi.

### Specifications

#### Minimum Device Requirement:

BLE 4.0 devices running iOS® 7.0 or Android™ 5.0

**Compatible Media:** Dry, non-corrosive gas

**Pressure Port:** Tube connector for flexible tubing (4.5 to 8mm ID)

**Units of Measure:** inWC, mmWC, mbar, psi, Pa

#### Accuracy and Ranges:

inWC:  $\pm(1.5\% + 0.02)$  0.00 to  $\pm 60.00$ ;

mmWC:  $\pm(1.5\% + 0.5)$  0.0 to  $\pm 1500.0$ ;

mbar:  $\pm(1.5\% + 0.05)$  0.00 to  $\pm 150.00$ ;

psi:  $\pm(1.5\% + 0.001)$  0.000 to  $\pm 2.165$ ;

Pa:  $\pm(1.5\% + 5)$  0 to  $\pm 14930$

**Maximum Overload Pressure:** 321.08 inWC (11.6 psi; 80.0 kPa)

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

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

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

**Wireless Range:** 1000 feet (305 meters) line of sight.

Obstructions affect distance.

**Radio Frequency:** 2.4 GHz


**Operating Environment:** -10°F to 122°F (-23°C to 50°C) at <75% RH

**Storage Temperature:** -10°F to 140°F (-23°C to 60°C) at <80% RH (with batteries removed)

**Temperature Coefficient:** 0.1 x (specified accuracy) per 1.8°F (-10°F to 64°F, 82°F to 122°F), per 1°C (-23°C to 18°C, 28°C to 50°C)

**Weight:** 0.30 lbs (137 g)

## Operation

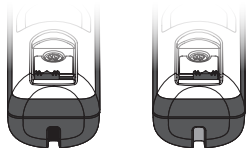
-  Press for 1 second to power ON/OFF.  
Tap to zero measurements.

### LED Color Indications

Green slow blink: normal operation  
Red slow blink: batteries need to be replaced

### Supply or Return Side Switch

The Job Link® System app knows which side you have selected for each probe. Select **P1** or **P2** and place it on the system appropriately.



P1  
(Supply)  
(Blue)

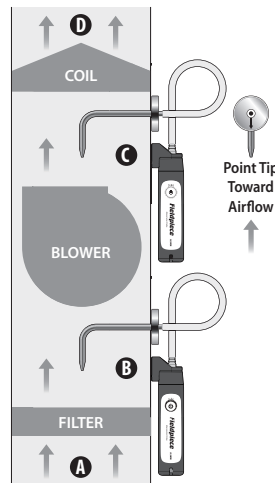
P2  
(Return)  
(Red)

## Static Pressure

Static pressure testing ensures if the equipment is operating within factory specifications.

- 1 Zero your JL3MN while in ambient pressure with any tubing/probes attached before taking measurements. For measurements less than 2 inWC, take reading within 1 minute after zeroing for best accuracy.
- 2 Use the included static pressure tip when checking static pressure in an airflow stream.
- 3 Place a JL3MN before and after the filter to measure your filter pressure drop (B A).
- 4 Place a JL3MN before and after the coil to measure your coil pressure drop (D C).
- 5 Place a JL3MN in the inlet and outlet air of the equipment to measure your total external static pressure (C B). Check with manufacturer to determine TESP test locations.

NOTE: If you are in an environment where the temperature is noticeably changing while you are taking your reading, it is advised that you disconnect the probe from the tubing and ZERO it relative to the ambient air before each reading.



## Gas Pressure

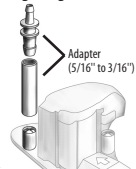
Prevent symptoms like rough starts or overheating your heat exchanger by checking your gas pressure.

- 1 See manufacturer's specification for target inlet and outlet fuel or gas pressures.
- 2 Shut off main gas supply power to furnace.
- 4 Zero your JL3MN while at ambient pressure with tubing attached before taking measurements.
- 5 Remove outlet pressure tap screw and insert the brass screw fitting of the hose into the outlet pressure tap of the gas regulator.

NOTE: Some pressure taps have a 5/16" boss instead of an insert screw. In this case, use the included 5/16" adapter tube. Loosen the tap screw about 1 revolution and slide the tube over the boss.

6 If you suspect high or low inlet pressure to the regulator, connect the JL3MN to the inlet tap.

7 Put furnace into operation and begin to take measurements.



## Auto Power Off (APO)

The probe will automatically power off after 2 hours. To disable APO until powered off, while power is on tap  $\phi$  twice. The LED will briefly blink red. To enable APO, while power is on tap  $\phi$  twice. The LED will briefly shine red.

## Certifications and Module IDs



EN 300 328



UK Conformity Assessed



ZALHR003



Regulatory Compliance Mark



Waste Electrical and Electronic Equipment



Restriction of Hazardous Substances Compliant

IC: Industry Canada  
22518-BT003

IFETEL: Federal Telecom Institute  
RCPFI2A18-0235

## 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 0.5 cm between the radiator and your body. Fieldpiece Instruments 1636 West Collins Avenue, Orange, CA 92867

## IFETEL Statement

*La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.*

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

## 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.

**Fieldpiece**  
Designed in USA  
MADE IN MEXICO

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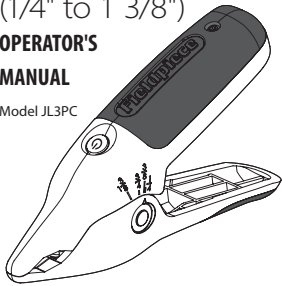


# Fieldpiece

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

### OPERATOR'S MANUAL

Model JL3PC



## Quick Start

- 1 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 single screw of the top rubberized battery cover and install 2 x AAA 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 1000 feet away.

## What's Included

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

### WARNING

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

## Description

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

The Rapid Rail™ thermocouple is specifically designed to work on HVACR electrical (and thermally) conductive piping and uses the pipe itself to complete the circuit, 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.

## 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  $32^{\circ}\text{F} \pm 1^{\circ}\text{F}$ . 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

**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:**  $\pm 1.0^{\circ}\text{F}$  ( $\pm 0.6^{\circ}\text{C}$ )

\*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:** 1000 feet (305 meters) line of sight.

Obstructions affect distance.

**Radio Frequency:** 2.4 GHz

**Operating Environment:** -4°F to 122°F (-20°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 1.8°F

(-4°F to 64°F; 42°F to 122°F), per 1°C (-20°C to 18°C, 28°C to 50°C)

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

**Water Resistant:** Designed to IP55

## Operation

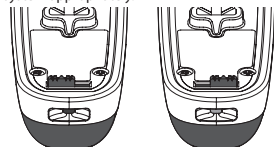
Press for 1 second to power ON/OFF.

### 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.



Suction Line  
(Low Side)  
(Blue)

Liquid Line  
(High Side)  
(Red)

## 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

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

Use the Job Link® system mobile 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® system mobile app.
- 3 Press  $\Phi$  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 app to extract your data log from the JL3PC.

## 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  $\Phi$  twice. The LED will briefly blink red. To enable APO, while power is on tap  $\Phi$  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.

**Fieldpiece**  
Designed in USA

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## Certifications and Module IDs



EN 300 328



2ALHR003



Regulatory Compliance Mark



Waste Electrical and  
Electronic Equipment



Restriction of Hazardous  
Substances Compliant



00263-18-10972

IC: Industry Canada

22518-BT003

IFETEL: Federal Telecom Institute

RCPF12A18-0235

## 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 0.5 cm between the radiator and your body. Fieldpiece Instruments 1636 West Collins Avenue, Orange, CA 92867

## IFETEL Statement

*La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.*

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

## ANATEL Statement

*Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.*

This equipment is not subject to the protection from harmful interference and may not cause interference with duly authorized systems.



# Fieldpiece

## Job Link® System Pressure Probe OPERATOR'S MANUAL

Model JL3PR



### Quick Start

- 1 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 single screw of the yellow battery cover and install 2 x AAA 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 1000 feet away.

### What's Included

- Job Link® System Pressure Probe
- 2 x Replacement Gaskets
- 2 x AAA Batteries
- Operator's Manual
- 1 Year Limited Warranty

### WARNING

Hand turn the female fitting to connect and disconnect.  
DO NOT use the plastic body to increase leverage. Doing so can cause damage, leaks, and void warranty.  
Do not apply more than 800 psig.

### Description

The JL3PR Job Link® System Pressure Probe sends long range wireless pressure measurements directly to the Fieldpiece Job Link® system mobile app.

Easily reach service ports in tight spaces using the angled 1/4" fitting. The rubberized protective housing is both ergonomic and rugged for daily use.

Flip the switch to red or blue and the app immediately knows which side of the system you're going to place your pressure probe.

The perfect balance of size and capability gives you exactly what you need to diagnose systems day in and day out quickly and confidently.

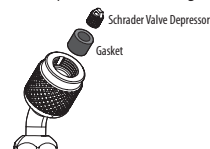
### Maintenance

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

**GASKET:** The black rubber gasket that seals the pressure probe to the service port may become worn over time potentially causing a leak. This results from overtightening or connecting to damaged service port fittings.

- 1 Use needle nose pliers or a similar tool to unscrew the Schrader valve depressor from the gasket.
- 2 Remove and replace the worn gasket.
- 3 Screw the depressor back into the gasket.



### Specifications

#### Minimum Device Requirement:

BLE 4.0 devices running iOS® 7.0 or Android™ 5.0

**Sensor Type:** Relative pressure

**Connector Type:** Standard 1/4" NPT female flare fitting (angled)

#### Measurement Range:

29" HgV to 580 psig, 74 cmHgV to 0 to 4000 kPa

#### Accuracy:

29" HgV to 0" HgV:  $\pm 0.2$ " HgV; 74 cmHgV to 0 cmHgV:  $\pm 1$  cmHgV

0 to 200 psig:  $\pm 1$  psig; 0 to 1378 kPa:  $\pm 7$  kPa

200 to 580 psig:  $\pm 2$  psig; 1378 to 4000 kPa:  $\pm 14$  kPa

**Maximum Overload Pressure:** 800 psig (5500 kPa)

**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:** 1000 feet (305 meters) line of sight.

Obstructions affect distance.

**Radio Frequency:** 2.4 GHz

**Operating Environment:** -4°F to 122°F (-20°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 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:** 0.39 lbs (177 g)

**Water Resistant:** Designed to IP55

### Operation

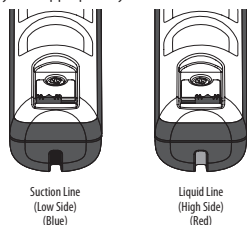
Press for 1 second to power ON/OFF.

### LED Color Indications

Green slow blink: normal operation  
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.



### Remote Data Logging

(Data logging will be available shortly after time of printing. Look for updates.)

Use the Job Link® system mobile app to program the JL3PR to log measurements starting at a specific time of day for up to 7 days. Auto power off disables.

- 1 Make sure JL3PR is powered OFF.
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- 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 JL3PR 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 JL3PR.

### Auto Power Off (APO)

The pressure probe will automatically power off after 2 hours. To disable APO until powered off, while power is on tap  $\Phi$  twice. The LED will briefly blink red. To enable APO, while power is on tap  $\Phi$  twice. The LED will briefly shine red.

### Auto Calibration

Automatically calibrate your JL3PR by ensuring the sensor is open to atmosphere when you power ON the probe.

### 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.

**Fieldpiece**  
Designed in USA

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CE  
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FC  
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ANATEL  
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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 0.5 cm between the radiator and your body. Fieldpiece Instruments 1636 West Collins Avenue, Orange, CA 92667

### IFETEL Statement

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

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Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

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# Fieldpiece

## Job Link® System Flex Psychrometer

### OPERATOR'S MANUAL

Model JL3RH



## Quick Start

- 1 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 single screw of the yellow battery cover and install 2 x AAA 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 Remove protective slip cover from tip.
- 6 View live measurements on your mobile device up to 1000 feet away.

## What's Included

- Job Link® System Flex Psychrometer Probe
- 1 Protective Slip Cover
- 2 x AAA Batteries
- Operator's Manual
- 1 Year Limited Warranty

### WARNING

Prevent damage, do not drill holes blindly into a plenum that houses the evaporator or heat exchanger.

## Description

The JL3RH Job Link® System Flex Psychrometer Probe sends air measurements directly to the Fieldpiece Job Link® app up to 1000' away.

Measure %RH, dry bulb, wet bulb, dew point, and enthalpy at a register/grille, in the duct, or just walking around. Bend the flexible probe and slide the magnet to conveniently configure the JL3RH to your situation.

The rubberized protective housing is both ergonomic and rugged for daily use. Flip the switch and app immediately knows which side of the system you're going to place your psychrometer probe.

Use the long wireless range, strong magnet, and flexible probe for quick and easy psychrometrics testing.

## Maintenance

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

**BATTERIES:** When the LED slow blinks Red, the batteries must be replaced. Ensure the power is OFF. Remove the single screw from the yellow battery cover. Install 2 x AAA batteries. Monitor battery life in the app's tool manager.

**SENSOR CARE:** Cover the sensor with the slip cover when not in use. Extreme conditions or exposure to solvent vapor may offset the RH sensor. To re-calibrate, place the sensor in a controlled environment of 75%RH and between 68°F - 86°F for a period of 24 hours. To create a 75%RH environment, add wet salt to a clean open container (bottle cap). Be careful to not let the solution touch the probe. Place this container and the probe in a large sealed bag at room temperature, undisturbed for 24 hours.

## Specifications

**Minimum Device Requirement:**  
BLE 4.0 devices running iOS® 7.0 or Android™ 5.0

**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:** 1000 feet (305 meters) line of sight.  
Obstructions affect distance.

**Radio Frequency:** 2.4 GHz  
**Operating Environment:** -4°F to 122°F (-20°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 1.8°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)  
.25" (235mm) length

### Relative Humidity (%RH)

**Hysteresis:** ±1%RH typical (Excursion of 10% to 90% to 10%RH)  
**Measurement Range:** 0%RH to 100%RH

**Accuracy:** (At 73.4°F (23°C))  
±2.5% (10%RH to 90%RH); ±(5%) <10%RH; >90%RH  
**Response Time:** 60 seconds typical for 90% of total range

### Temperature

**Measurement Range:** -40°F to 250°F (-40°C to 121°C) **Accuracy:**  
±(1°F) 32°F to 113°F, ±(0.5°C) 0°C to 45°C; ±(2°F) -40°F to 32°F, 113°F to 250°F; ±(1°C) -40°C to 0°C, 45°C to 121°C

## Operation

Press for 1 second to power ON/OFF.

### LED Color Indications

Green slow blink: normal operation  
Red slow blink: batteries need to be replaced

### Supply or Return Side Switch

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

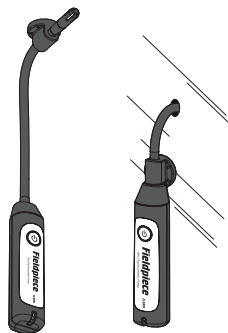
Supply Air  
(Cool Air)  
(Blue)

Return Air  
(Warm Air)  
(Red)

### Magnetic Hanger

You can slide the magnet to where you need it. Slide it to the top and reach high grilles/registers.

The magnet also holds the psychrometer in place when testing in duct air. Just bend the probe and slide into a 3/8" (10mm) hole in the duct.



### Remote Data Logging

(Data logging will be available shortly after time of printing. Look for updates.)

Use the Job Link® system app to program the JL3RH to log measurements starting at a specific time of day for up to 7 days. Auto power off disables.

- 1 Make sure JL3RH is powered OFF.
- 2 Open the Job Link® system mobile app.
- 3 Press  $\phi$  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 JL3RH 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 JL3RH.

### Auto Power Off (APO)

The probe will automatically power off after 2 hours. To disable APO until powered off, while power is on tap  $\phi$  twice. The LED will briefly blink red. To enable APO, while power is on tap  $\phi$  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. Register your Fieldpiece product. 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.

**Fieldpiece**  
Designed in USA  
MADE IN THAILAND

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## Certifications and Module IDs

CE  
EN 300 328  
FCC  
2ALHR003

ANATEL  
00263-18-10972

IC: Industry Canada  
22518-BT003

Regulatory Compliance Mark

Waste Electrical and  
Electronic Equipment

Restriction of Hazardous  
Substances Compliant

IFETEL: Federal Telecom Institute  
RCPF2A18-0235

## 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.

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