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# IoTHF WLS Installation Guide

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## CHANGE LOG

| Version | Changes                                   | Date        |
|---------|-------------------------------------------|-------------|
| 1.0     | First release                             | 07 Feb 2021 |
| 1.1     | Add FCC statement and Product Description | 10 Jan 2022 |
|         |                                           |             |

## Regulatory/compliance notices

### FCC Statement

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

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

### NOTE:

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.

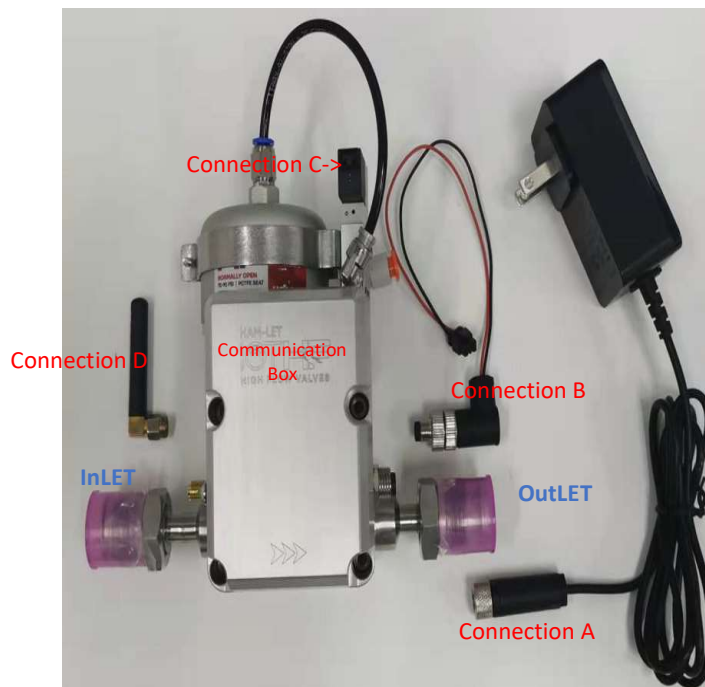
To comply with RF exposure requirements, a minimum separation distance of 20mm must be maintained between the user's body and the device, including the antenna.

## Product Description

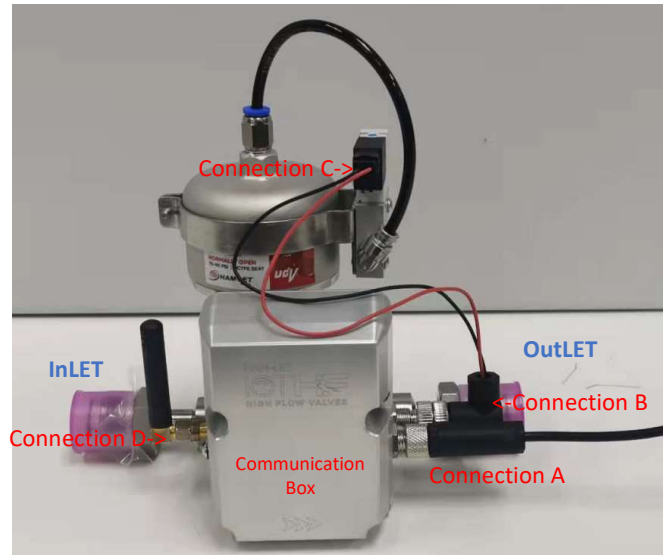
The IoTHF (Model:IoTHF) provides a high-quality solution for high flow applications by remotely On/Off the high flow valve . It can be controlled via IoT-let portal in web browser or Mobile App. The valve is available in air operated (normally Opened/Closed) version.

## IOT HF WLS Interface connection

These are the items included in the package.



## Overall set-up & connectivity



## 1. Connection A: Power Supply

This is M8 Female (4-pin) Power Adapter (24V, 1A)

Note: There is no Modbus RTU support when using this power adapter.



Connect the M8 Female (4-pin) to communication box. Please refer to pic below:

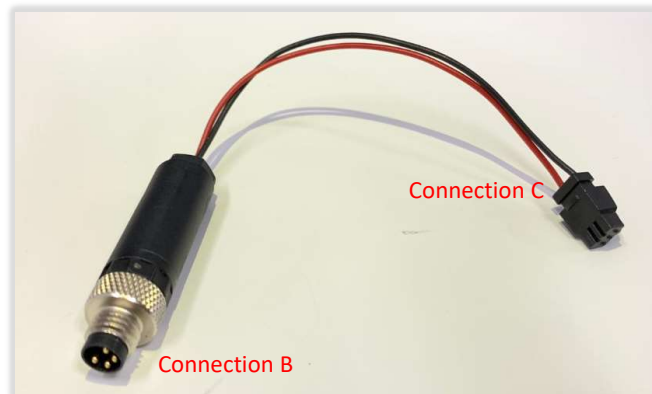


### Warning!

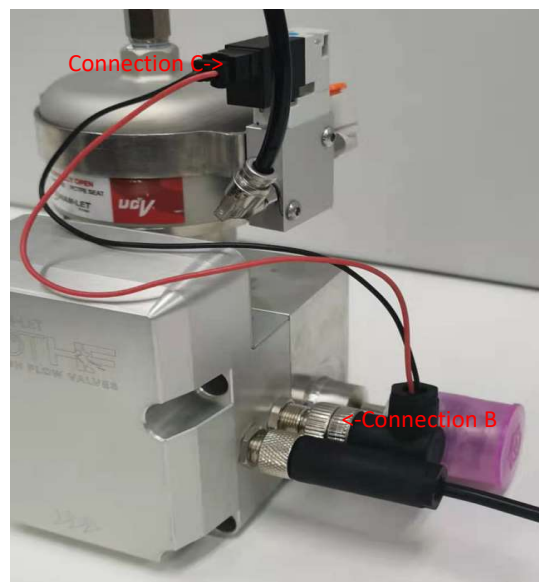
1. After insert the Female M8 plug, do remember to tighten it.

## 2. Connection B & C: Solenoid Connection

This is the cable interface in between the communication box and the solenoid. It contains a M8 Male 4-pin to 2-pin plug.



Connect the 2-pin plug into the solenoid and the M8 (Male) 4-pin to the communication box. Please refer to the picture shown:



**Warning!** After inserting the M8 Male 4-pin plug, do remember to tighten it on the outer ring.

### 3. Connection D: Antenna Connection

Connect the SMA plug of the right-angle antenna to the communication box per picture shown at connection D (The Antenna is provided in the packaging.)

**Warning!** After inserting the SMA plug, tighten the plug and set the antenna in the vertical direction.



#### 4. Connection E: Solenoid Air Supply

The Pneumatic Inlet must be connected to the Port 1 of the solenoid per the picture below. The Pneumatic Inlet connector requires a M5 Male with a ¼" tubing (KQ2L07-M5N or KQ2H07-M5N)



**Warning!** The solenoid requires the supplied gas pressure to be from 70PSI to 90PSI (5 to 6 BAR).

#### 5. Green LED Status Indication



| LED Status | Function / Behaviour                    |
|------------|-----------------------------------------|
| Fast Blink | Power on and connecting to LoRa Gateway |
| Slow Blink | Provision with IOT-LET cloud            |
| Solid ON   | In Operational Mode                     |
| OFF        | Power Off                               |

**Warning!**

If the LED remains at Slow Blink continuous for ~5mins, it may have connected in Test Mode. Please power cycle the valve again for it to join correctly.

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