APPLICATION

A Remote Temperature and Humidity (RTH) sensor paired with a Smart Node results in a clean aesthetic in your space while minimizing installation times. The RTH provides highly accurate temperature and humidity values from your space and the Smart Node reports these values to the CCU.

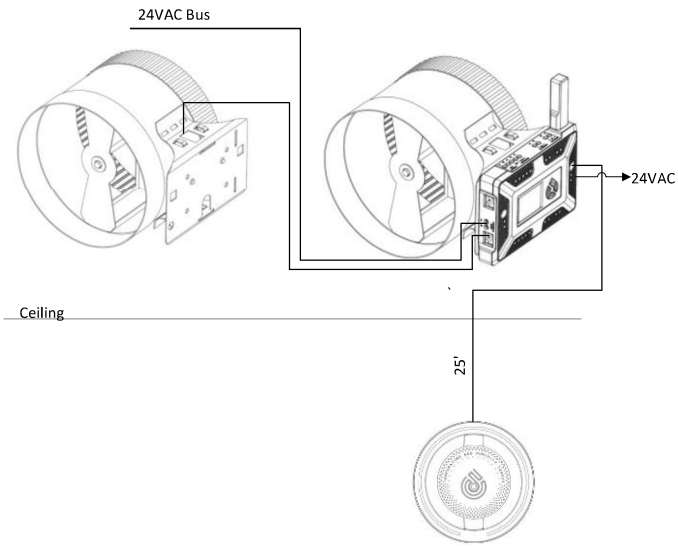

Fig.1

PRECAUTIONS

- Take all precautions normally taken when installing a thermostat (e.g. not in direct sunlight, not on an exterior wall, not near heat producing equipment)
- Disconnect power before installing. Never connect or disconnect wiring with power applied
- Do NOT run RTH harness next to line voltage
- Install in accordance with all State and local codes.

FEATURES

- Accurate Temperature
- Accurate Humidity
- Wireless communication to Central Control Unit (CCU)

SPECIFICATIONS

Remote Temperature Sensor

- *Operating Environment:* 0°F – 122°F

MOUNTING

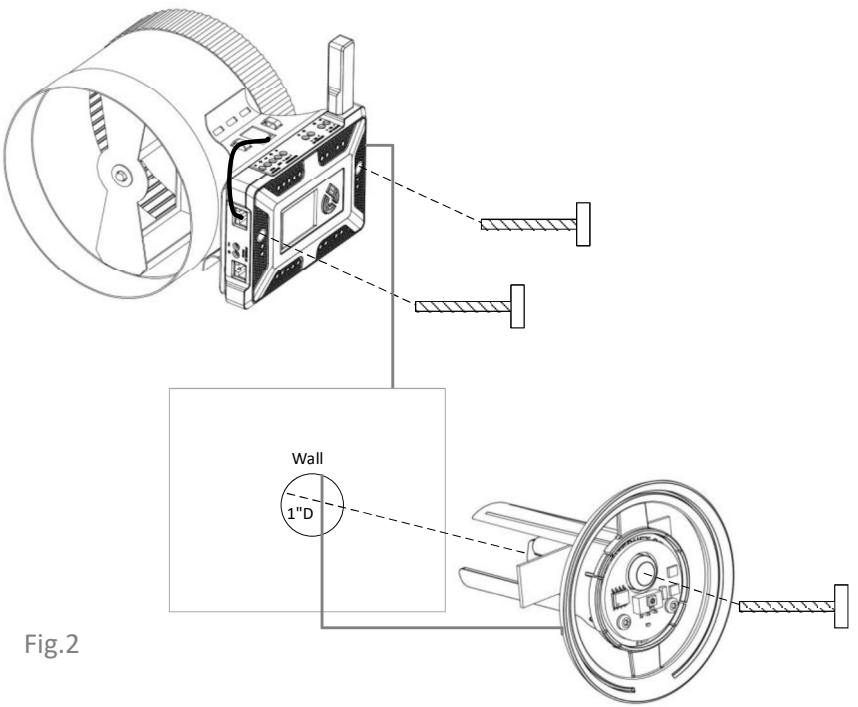

Fig.2

Mounting the Smart Node. To Mount the 75F Smart Node, first identify the primary damper in the zone. If there is only one damper, that is the

primary damper. If there are two, pick the most accessible damper as you will need access to the Smart Node. Using the provided hex key bolts, screw the Smart Node to the damper side bracket cage nuts until snug.

Installing the RTH. To install the RTH, you will need a 1" hole saw. Determine where to ideally install the RTH. *Also ensure the sensor will not be installed behind any objects such as picture frames, shelving units, equipment, etc.* When these conditions are met, drill a 1" hole 5' off the ground in the desired location. Drill the hole no lower than 4'6" and no higher than 5'6 if at all possible.

***For accurate performance ensure:*

- *There are no near heat producing devices*
- *That you are not on an exterior wall*
- *That the sensor will not be exposed to strong drafts or direct sunlight*

WIRING

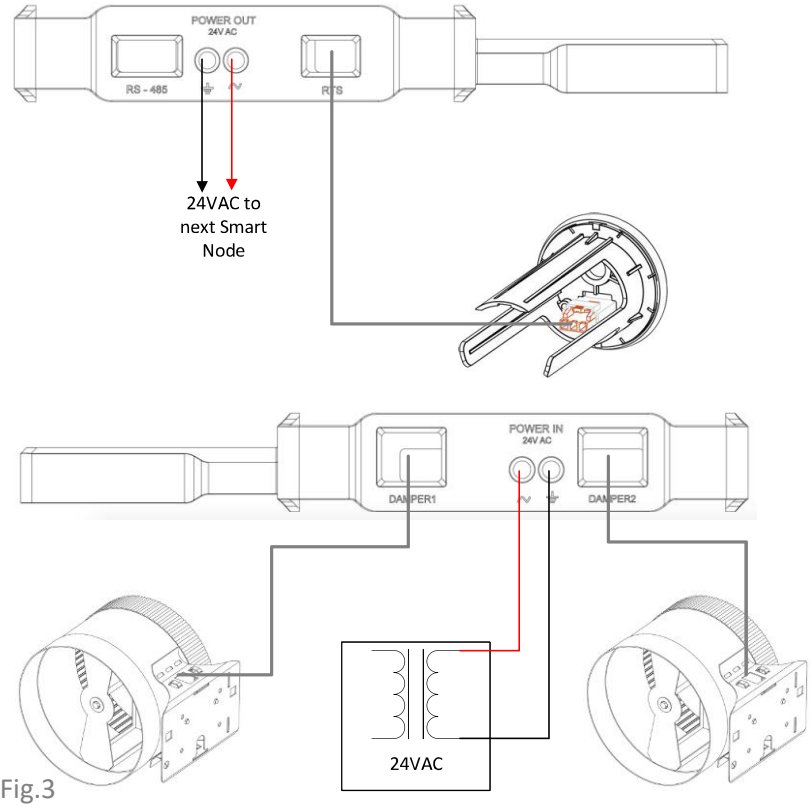

Fig.3

Remote Temperature and Humidity Sensor (RTH) Harness. Both ends of the RTS harness are the same male connectors. Run one of the ends down the wall and feed through the 1" hole drilled previously. Plug into the RTH. Plug the other end into the RTS port on the Smart Node.

Powering the Smart Node. To power the smart node run your 18/2AWG bus line to the Power IN on the Smart Node. All devices with a shared transformer must be the same polarity. If you have another Smart Node that needs to be powered, daisy chain them from Power OUT to the next Power IN. Secure your cables so there is no excessive strain on any connections.

Connect the Smart Damper(s). First connect the primary damper RJ45 lead to the Damper1 port on the Smart Node. Run the Cat5 extension cable from the Smart Node Damper2 port (Male end) to the RJ45 lead (Female end) on the secondary damper. Ensure all connections are tight

and cables managed so no excess stress occurs on any connection.

PAIRING

Pair the Smart Node to a zone that has been preconfigured or create and configure a zone yourself through Setup > Floor Plan on the CCU.

Once power is supplied to the system and all Smart Nodes are displaying the default room.

1. Disconnect the tablet from the CM and carry it with. Pairing will be performed using Bluetooth.

2. On the RTH push the small "Pair" button for 2 seconds. This puts the Smart Node into advertising mode. Alternatively, you can press the right button on the Smart Node until you reach advertising mode.

Fig.4

3. On the tablet choose the zone you wish to pair and press "Pair Module." Pairing process will start. If no zones are displayed you will need to add all floors and rooms before pairing.

4. The tablet will request a PIN. Enter the PIN displayed on the Smart Node in the zone you are pairing.

Fig.5

5. Pairing process will take a few more seconds and then complete displaying “Success” on the screen. After a few more seconds the Smart Node will display the new zone name. The tablet will not display any zone data until it is reconnected to the CM where it will communicate over a 900Mhz channel.

Fig.6

TROUBLESHOOTING

PROBLEM	SOLUTION
No display	No power to controller. Check voltage to Smart Node is 24VAC.

75F TECHNICAL SUPPORT

If you need more information, please visit support.75f.io. Here installers will find instructional videos, installation guides, and more. You can also call 888.612.7575 for technical support.

FCC Compliance Statement

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.
CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications 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.
This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and all persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada license-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur/récepteur exempt de licence contenu dans
le présent appareil est conforme aux CNR d'Innovation, Sciences
et Développement économique 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;
2. L'appareil doit accepter
   tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compr
   omettre le fonctionnement.

NOTE: This equipment complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

REMARQUE: Cet équipement est conforme aux limites d'exposition aux radiations RSS-102 établies pour
un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance mini male de 20 cm entre le radiateur et votre corps.