mSense

Room Comfort Sensor
Quick installation guide

Face

Disassembly tab
(on both sides)

Cover

Connection
port

O-ring
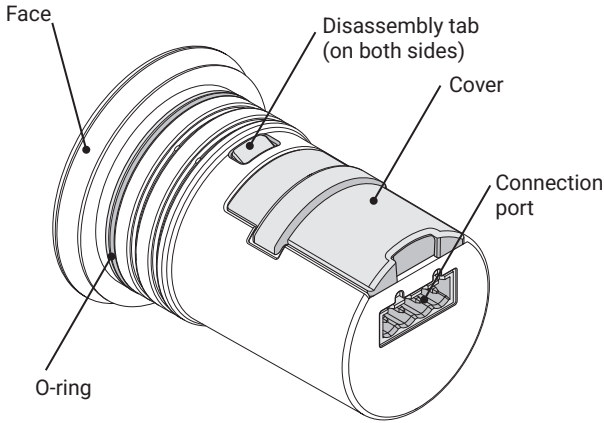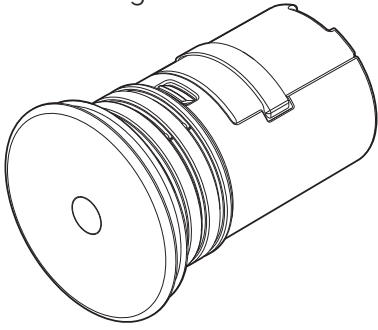
MSENST00W	mSense Temp Only
MSENSTH0W	mSense T/RH
MSENSTHQW	mSense T/RH/VOC

Contamination protection

DO NOT REMOVE!

CONTAMINATION PROTECTION
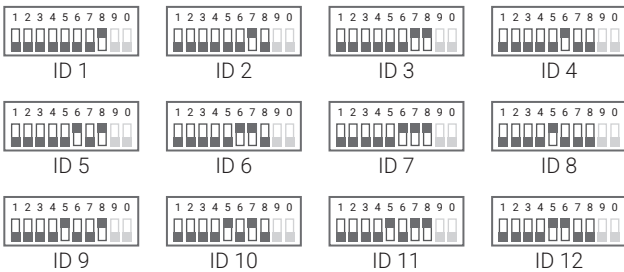
KEEP DURING CONSTRUCTION
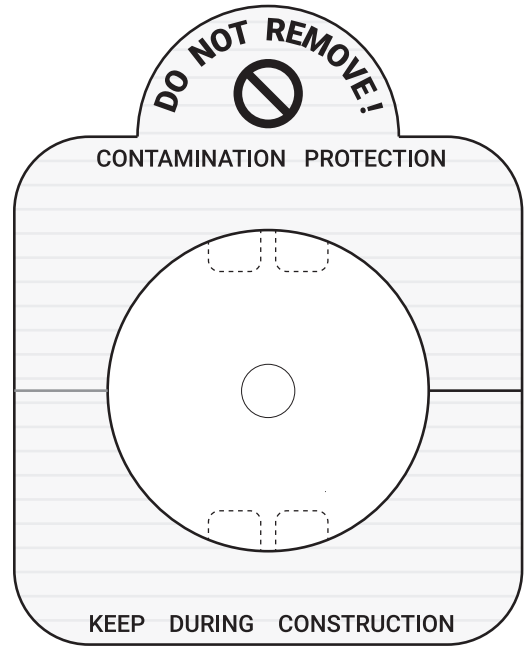
⚠️ The cardboard protection has teeth that will keep the air holes closed to protect the internal sensors from chemical contamination.
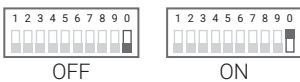
Setting the zone address

Remove cover
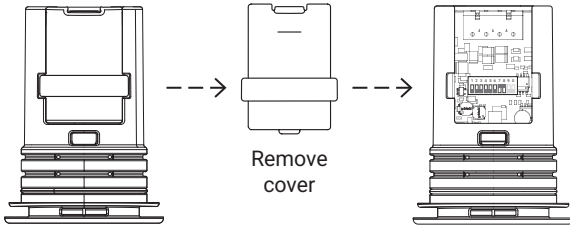
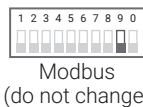Set the mSense address on the dip-switch to match the address assigned to the zone as per design.
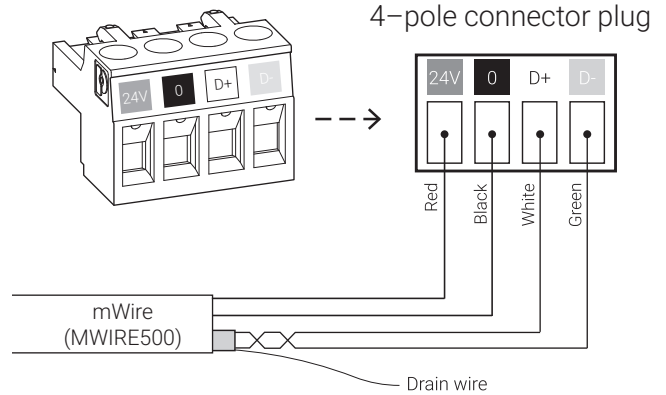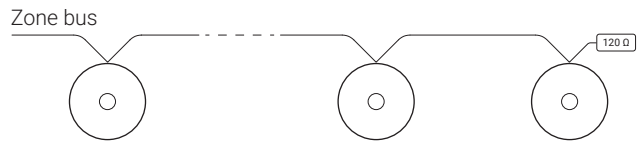
mSense address dip-switch (#1 to #8)

ID 1   ID 2   ID 3   ID 4

ID 5   ID 6   ID 7   ID 8

ID 9   ID 10   ID 11   ID 12

Bus termination (#0)   Modbus (#9)

OFF   ON   Modbus
(do not change)

Wiring terminals

4–pole connector plug

24V   0   D+   D-

Red   Black   White   Green
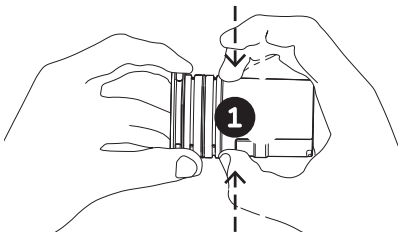
mWire
(MWIRE500)

Drain wire

Bus connection and termination


Zone bus

120 Ω

Connect all the mSense in a serial bus configuration (daisy chain) while maintaining the connection of the drain wire. Then, terminate the last sensor by setting the bus termination switch (#0) to ON, ensuring that the drain wire is left disconnected.
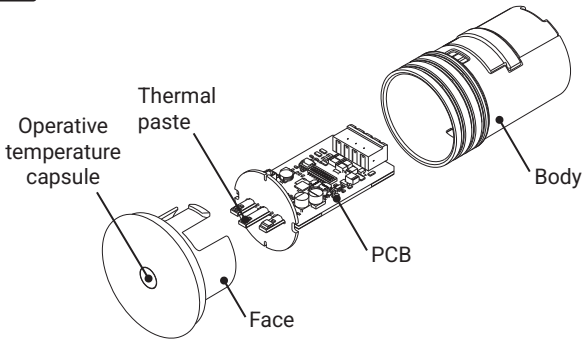
How to disassemble for painting

1 Only open for painting.

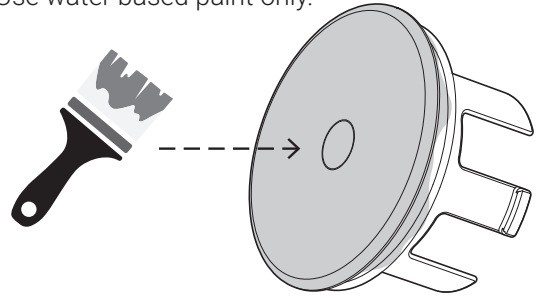Break the sticker and push the two disassembly tabs at the same time to open.

2
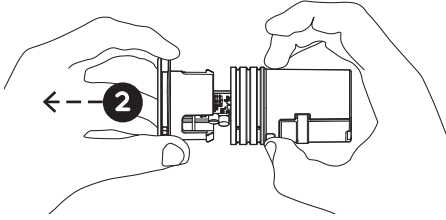
⚠ Do not remove the thermal paste.

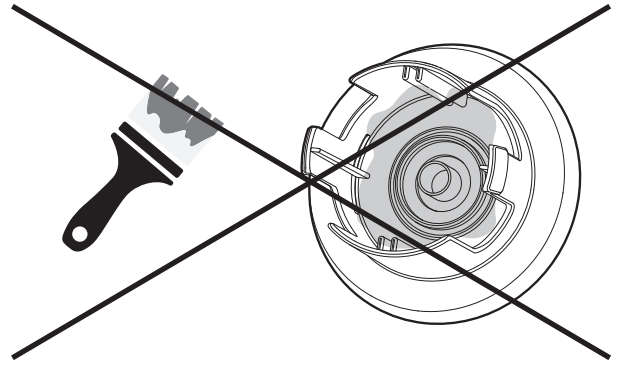Operative temperature capsule

Thermal paste

PCB

Face

Body

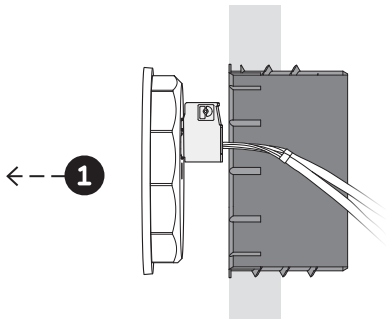## How to paint the face

⚠ Use water based paint only.

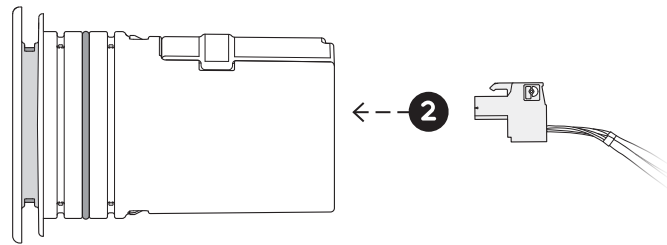⚠ Do not paint while the sensor is installed in the wall. Disassemble it.
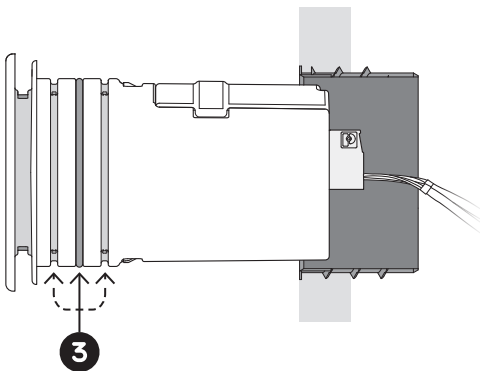
⚠ Do not paint the back side of the mSense face.

Wall installation

1

Remove the O-in™ protection cap from adapter sleeve.

2

Extract the previously wired connector and plug into the mSense.

3

Push the mSense into the O-in™ adapter sleeve. Depending on the wall finishing, you may need to move the o-ring to ensure the correct grip of the sensor.

4

Airflow

Airflow

⬆ ⚠ The cover must face up.
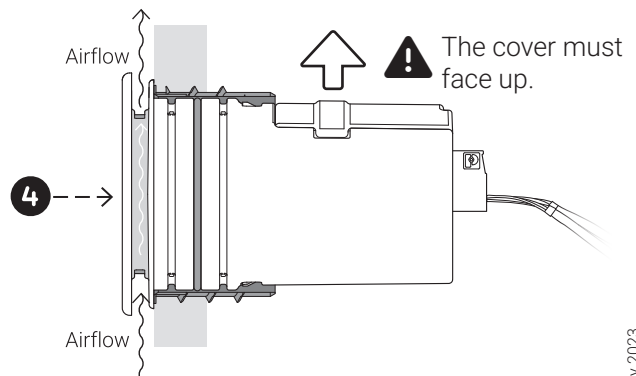
⚠ During insertion, keep the ventilation opening on the face of the mSense perpendicular to the floor as shown in the picture.

May 2023