

INSTALLATION INSTRUCTIONS

Remote Temperature Sensor – In-Wall Mount (1-Inch Hole)

Product Description

The Remote Temperature Sensor is designed for discreet, flush-mounted in-wall installation and connects to a compatible thermostat via a 2-wire low-voltage connection. The sensor fits precisely into a 1-inch round opening and comes **primed and ready for painting** to match the wall finish. A **mud ring is available** for pre-wiring installations to ensure accurate fit and seamless wall integration.

Package Contents

- Remote Temperature Sensor (primed, unpainted)
 - Optional Mounting Spring Clip or Retaining Collar (if applicable)
 - **Optional: Mud Ring** for pre-wiring
 - Wiring Label
 - Installation Guide
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Tools & Materials Required

- 1” Hole Saw or Drill Bit (for retrofit installs)
 - Low-voltage 2-conductor cable (18–24 AWG recommended)
 - Wire stripper
 - Small flat screwdriver
 - Drywall compound (for use with mud ring, if applicable)
 - Paint (optional, final wall colour)
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Installation Methods

Option A – Pre-Wiring with optional available Mud Ring (New Construction or Renovation)

1. **Install Mud Ring**
 - During pre-wiring, install the **provided mud ring** at the desired sensor location.
 - The mud ring is designed to hold the sensor in a **precise 1-inch cavity**.
 - Secure the mud ring to the framing or backing as needed.
2. **Run Sensor Wiring**
 - Pull a **2-conductor low-voltage cable** into the mud ring location, leaving at least 10 cm (4”) of slack.
 - Ensure that wire ends remain accessible and protected until final installation.
3. **Apply Drywall Finish**
 - Mud over and finish the wall as usual, leaving the **sensor cavity clean and exposed**.
 - Once dry and painted, the cavity is ready for sensor insertion.

Option B – Retrofit Installation (Finished Wall)

1. **Choose Location**
 - Install sensor on an interior wall, approx. 1.5 m (5 feet) above floor level.
 - Avoid locations with direct sunlight, HVAC vents, or electrical interference.
2. **Drill Hole**
 - Use a 1” hole saw or spade bit to drill a clean round hole at the selected spot.
3. **Run Wiring**
 - Route a **2-conductor cable** to the sensor location and leave enough slack.

Electrical Connection (Both Methods)

1. **Observe Polarity**
 - **Important:** The sensor is polarity sensitive.
 - Match **positive (+)** and **negative (–)** between the thermostat and sensor terminals.
 - Incorrect polarity may result in faulty temperature readings.
2. **Connect Wires**
 - Strip approx. 6 mm (¼ inch) of insulation.
 - Connect the wires securely to the sensor’s terminals or pigtails.
 - Confirm all connections are tight and polarity is correct.
3. **Insert Sensor**
 - For **mud ring installs**, push the sensor into the finished cavity.

- For **retrofit installs**, insert the sensor into the 1” drilled hole.
 - If applicable, use spring clips or retaining collars to secure the sensor flush with the wall.
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Painting Instructions

- The sensor is **primed and ready to be painted** with the client’s selected wall colour.
 - **Only paint the visible front surface.**
 - **Do NOT apply paint into or around the rear air gaps** behind the front face.
 - Obstructing ventilation will compromise sensor accuracy.
 - Use a **light spray or brush coat** for best results. Do not oversaturate.
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Final Checks

- Verify correct polarity at both ends before powering the thermostat.
 - Ensure the sensor is clean, flush-mounted, and unobstructed.
 - Check that no paint or debris blocks the air gaps.
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Maintenance

- No ongoing maintenance required.
 - Clean with a soft, dry cloth. Do not attempt to open or disassemble the sensor.
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Support

For questions or technical assistance, contact your system provider or visit:

www.simple-avs.com
