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Dwyer TE-NND-F

Dwyer® NA Wall Mount Temperature Sensor User Manual

Model: TE-NND-F

Product Overview

The Dwyer Series TE-E/N Wall Mount Temperature Sensor is designed to provide accurate temperature input for building management systems. Its housing features large vents to ensure proper airflow, enabling precise measurement of ambient temperature in various indoor environments such as hotel rooms or office buildings. The sensor's wall plate includes multiple mounting holes for versatile installation on different surfaces.



Image: Front view of the Dwyer TE-NND-F Wall Mount Temperature Sensor. It is a compact, rectangular, off-white unit designed for discreet wall mounting.

Specifications

Parameter	Value
Model	TE-NND-F
Sensor Type	20K Ohm Sensor
Accuracy	±0.22°C @ 25°C (±0.4°F @ 77°F)
Temperature Limits	-40 to 140°F (-40 to 60°C)
Housing Material	ABS plastic
Item Weight	4.8 ounces

Manufacturer	Dwyer Instruments, Inc.

Installation and Setup

Proper installation is crucial for accurate temperature readings. Follow these steps carefully:

1. **Choose Location:** Select an indoor wall location away from direct sunlight, heat sources (e.g., vents, lamps), and drafts. Ensure the location represents the average ambient temperature of the area to be monitored.
2. **Prepare Wiring:** Ensure power to the HVAC or building management system is off before beginning wiring. Route the sensor wires from the control system to the chosen mounting location.
3. **Mounting:**
    - Separate the sensor housing from the wall plate.
    - Position the wall plate on the wall and mark the drilling points using the multiple mounting holes provided.
    - Drill pilot holes if necessary and secure the wall plate to the wall using appropriate screws.
4. **Wiring Connections:** Connect the sensor wires to the appropriate terminals on the sensor's circuit board. Refer to your building management system's documentation for specific wiring diagrams for a 20K Ohm sensor. Ensure connections are secure and correct polarity is observed if applicable.
5. **Attach Housing:** Once wiring is complete and verified, carefully attach the sensor housing back onto the mounted wall plate, ensuring it clicks securely into place.
6. **Power On:** Restore power to the building management system.

Operation

The Dwyer TE-NND-F temperature sensor operates passively by providing a resistance output that varies with temperature. It does not have user-adjustable controls or displays on the unit itself. Its operation is entirely dependent on the connected building management system (BMS) or thermostat.

- **Temperature Reading:** The sensor continuously measures the ambient air temperature through its large vents.
- **Data Transmission:** The resistance value corresponding to the measured temperature is transmitted to the connected BMS or control system.
- **System Integration:** The BMS interprets this resistance value to display the temperature and initiate control actions (e.g., adjusting HVAC settings) based on programmed setpoints.

For temperature monitoring and system control, refer to the user manual of your specific building management system or thermostat.

Maintenance

The Dwyer TE-NND-F Wall Mount Temperature Sensor requires minimal maintenance to ensure continued accurate operation.

- **Cleaning:** Periodically, gently wipe the exterior of the sensor housing with a soft, dry cloth to remove dust. Do not use abrasive cleaners or solvents. Ensure the vents remain clear of obstructions.
- **Inspection:** Annually, inspect the sensor for any visible damage or loose connections. Ensure the housing is securely attached to the wall plate.
- **Recalibration:** This sensor is factory calibrated and typically does not require field recalibration. If accuracy issues are suspected, compare readings with a known accurate thermometer in the same environment. If

significant discrepancies persist, contact technical support.

Troubleshooting

If you experience issues with your Dwyer TE-NND-F temperature sensor, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Inaccurate Temperature Reading	Sensor located near heat/cold source or draft.	Relocate sensor to a more representative area. Ensure vents are clear.
No Temperature Reading / Sensor Offline	Loose or incorrect wiring connections.	Verify all wiring connections at the sensor and the BMS/control system. Ensure power is off before checking connections.
No Temperature Reading / Sensor Offline	Faulty sensor.	If wiring is correct and power is supplied, the sensor may be faulty. Contact Dwyer technical support for assistance.
Intermittent Readings	Loose wiring or environmental interference.	Check wiring for secure connections. Ensure sensor is not exposed to excessive electromagnetic interference.

For further assistance, please contact Dwyer Instruments, Inc. technical support.

Warranty Information

Dwyer Instruments, Inc. products are warranted to be free from defects in material and workmanship for a period of one (1) year from the date of shipment. This warranty does not cover defects resulting from improper installation, misuse, abuse, accident, or unauthorized repair or modification. For full warranty terms and conditions, please refer to the official Dwyer Instruments, Inc. website or contact customer service.

Technical Support and Contact

For technical assistance, product inquiries, or warranty claims, please contact Dwyer Instruments, Inc. directly.

Manufacturer: Dwyer Instruments, Inc.

Website: www.dwyer-inst.com

Contact Information: Please visit the "Contact Us" section on the official Dwyer website for phone numbers, email addresses, and support hours.

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