

Trane TDR00736 / TDR-0736

Trane TDR00736 / TDR-0736 OEM Pressure Transducer User Manual

Model: TDR00736 / TDR-0736

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Trane TDR00736 / TDR-0736 OEM Pressure Transducer. This device is designed for precise pressure measurement in various industrial applications. Please read this manual thoroughly before using the product.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure power is disconnected before installation or maintenance.
- Installation should only be performed by qualified personnel.
- Verify the pressure range of the transducer matches the system requirements.
- Do not exceed the maximum rated pressure or voltage.
- Protect the transducer from physical shock and extreme temperatures.
- Refer to local electrical codes and regulations during installation.

3. PRODUCT OVERVIEW

The Trane TDR00736 / TDR-0736 is an Original Equipment Manufacturer (OEM) pressure transducer designed for reliable and accurate pressure sensing. It is specifically calibrated for a 0-700 PSIA range, making it suitable for various HVAC and industrial applications where precise absolute pressure measurement is critical.



Figure 3.1: The Trane TDR00736 / TDR-0736 Pressure Transducer, shown in its original ServiceFirst OEM packaging. The box displays key specifications such as range (0-700 psia), supply voltage (24 V), signal type (IPC3), and mechanical connection (1/4 NPTF).



Figure 3.2: An illustrative stamp indicating "Trane OEM Component," signifying that the product is an original equipment manufacturer part from Trane, ensuring compatibility and quality.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the pressure transducer:

1. **Preparation:** Ensure the system is depressurized and power is off. Gather necessary tools (e.g., wrench, wire

strippers, multimeter).

- 2. **Mounting:** The transducer typically uses a 1/4 NPTF mechanical connection. Apply appropriate thread sealant (e.g., PTFE tape) to the transducer's threads. Carefully thread the transducer into the pressure port until snug. Do not overtighten.
- 3. **Electrical Connection:** Connect the transducer to the control system according to the wiring diagram provided by your system manufacturer. Ensure correct polarity for power supply (24 V) and signal output (IPC3). Use shielded cable if recommended for your application to minimize electrical noise.
- 4. **Verification:** After installation, re-pressurize the system slowly and check for leaks at the connection point. Restore power and verify the transducer is providing a stable and accurate signal to the control system.

Note: Specific wiring diagrams and mounting instructions may vary based on the equipment the transducer is integrated with. Always consult the primary equipment's service manual.

5. OPERATING INSTRUCTIONS

The Trane TDR00736 / TDR-0736 pressure transducer operates by converting measured pressure into an electrical signal. Once properly installed and powered, it continuously outputs a signal proportional to the absolute pressure within its specified range (0-700 PSIA).

- **Signal Interpretation:** The output signal (IPC3) should be interpreted by a compatible control system or monitoring device. Refer to the control system's documentation for details on how to read and utilize this signal.
- **Normal Operation:** The transducer is designed for continuous operation within its specified environmental and pressure limits. No user intervention is typically required during normal operation.
- **Pressure Monitoring:** Regularly monitor the pressure readings from the transducer via your control system to ensure system performance is within desired parameters.

6. MAINTENANCE

The Trane TDR00736 / TDR-0736 pressure transducer is a robust component designed for long-term reliability with minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Periodically inspect the transducer and its connections for any signs of physical damage, corrosion, or leaks.
- **Connection Integrity:** Ensure all electrical and mechanical connections remain secure. Loose connections can lead to intermittent readings or signal loss.
- **Cleaning:** If necessary, gently clean the exterior of the transducer with a soft, damp cloth. Do not use harsh chemicals or abrasive materials.
- **Calibration Check:** While the transducer is factory calibrated, if system performance indicates potential inaccuracies, a calibration check against a known standard may be performed by qualified technicians.

Warning: Do not attempt to disassemble the transducer. There are no user-serviceable parts inside. Disassembly will void any warranty.

7. TROUBLESHOOTING

If you encounter issues with the pressure transducer, consider the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No signal output or incorrect reading	No power to transducer Incorrect wiring Transducer failure System pressure outside range	Check power supply (24 V) Verify wiring against system diagram Replace transducer if faulty Ensure system pressure is within 0-700 PSIA
Intermittent or unstable readings	Loose electrical connections Electrical interference Vibration	Tighten all connections Check for proper shielding; re-route cables if necessary Isolate transducer from excessive vibration
Leak at mechanical connection	Improper thread sealant Insufficient tightening Damaged threads	Depressurize system, reapply thread sealant, and re-tighten Inspect threads for damage; replace if necessary

If the problem persists after attempting these solutions, contact Trane technical support or a qualified service technician.

8. SPECIFICATIONS

Key technical specifications for the Trane TDR00736 / TDR-0736 OEM Pressure Transducer:

Parameter	Value
Model Number	TDR00736 / TDR-0736
Pressure Range	0-700 PSIA (Pounds per Square Inch Absolute)
Supply Voltage	24 V (Volts)
Signal Output	IPC3 (Specific signal type, refer to system documentation)
Mechanical Connection	1/4 NPTF (National Pipe Taper Fuel)
Manufacturer	Trane
ASIN	B07XTR2VNF

9. WARRANTY AND SUPPORT

For information regarding the warranty of your Trane TDR00736 / TDR-0736 OEM Pressure Transducer, please refer to the documentation provided with your original equipment or contact Trane directly. As an OEM component, its warranty may be covered under the larger system it is part of.

For technical support, service, or to inquire about replacement parts, please contact Trane customer service or your authorized Trane dealer. Provide the model number (TDR00736 / TDR-0736) and any relevant system information when seeking assistance.

You can find contact information for Trane on their official website:www.trane.com



