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› MAKO AIRTEK Sensor for Fusheng FS Curtis Screw Air Compressor (Model 2105049966) Instruction Manual

MAKO AIRTEK 2105049966

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Model: 2105049966

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the MAKO AIRTEK Sensor, model 2105049966. This sensor is designed as a direct replacement part for Fusheng FS Curtis Screw Air Compressors, ensuring compatibility and reliable performance. Please read this manual thoroughly before proceeding with any procedures.

2. SAFETY INFORMATION

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

- **Qualified Personnel Only:** Installation and maintenance should only be performed by trained and qualified technicians familiar with air compressor systems and electrical components.
- **Disconnect Power:** Before beginning any installation, maintenance, or inspection, ensure the air compressor system is completely powered off and locked out to prevent accidental startup.
- **Depressurize System:** Verify that the air compressor system is fully depressurized before working on any components.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and protective clothing.
- **Consult Compressor Manual:** Refer to the original Fusheng FS Curtis Screw Air Compressor manual for specific safety procedures and system diagrams.

3. PRODUCT OVERVIEW

The MAKO AIRTEK Sensor (Model 2105049966) is a high-quality replacement component engineered to meet

original manufacturing standards for Fusheng FS Curtis Screw Air Compressors. This sensor is crucial for monitoring specific parameters within the compressor system, contributing to its efficient and safe operation. Its design ensures direct replacement and 100% product compatibility.



Figure 1: MAKO AIRTEK Sensor, Model 2105049966. This image displays the sensor with its white insulated wiring and threaded metal body, designed for precise measurement within air compressor systems.

Key features include:

- High-quality raw materials for durability and cost-effectiveness.
- Engineered to meet original manufacturing standards.
- Direct replacement and 100% compatibility with specified compressor models.



Figure 2: Variety of MAKO AIRTEK Sensors. This image illustrates the diverse range of sensors offered by MAKO AIRTEK, highlighting their expertise in compressor components.

4. SETUP AND INSTALLATION

Proper installation is critical for the sensor's performance and the overall reliability of the air compressor system. Always follow the specific instructions provided in your Fusheng FS Curtis Screw Air Compressor service manual for sensor replacement.

1. Preparation:

- Ensure the compressor is completely shut down, disconnected from power, and depressurized.
- Gather all necessary tools, including wrenches, torque wrenches, and electrical testers.

2. **Locate Existing Sensor:** Identify the sensor to be replaced within the compressor system. Note its mounting location and wiring connections.

3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old sensor. Label wires if necessary to ensure correct reconnection.

4. **Remove Old Sensor:** Using appropriate tools, carefully unthread or unmount the old sensor from its housing. Be prepared for any residual fluid or pressure.

5. **Inspect Mounting Area:** Clean the mounting area and inspect for any damage or debris. Ensure the threads are clean and free of obstructions.
6. **Install New Sensor:**
 - Apply a suitable thread sealant (if required by the compressor manufacturer) to the threads of the new MAKO AIRTEK sensor.
 - Carefully thread the new sensor into the mounting port.
 - Tighten the sensor to the manufacturer's specified torque using a torque wrench. *Overtightening can damage the sensor or housing.*
7. **Connect Wiring:** Reconnect the electrical wiring to the new sensor, ensuring all connections are secure and correct according to the compressor's wiring diagram.
8. **Post-Installation Check:**
 - Visually inspect all connections and the sensor's seating.
 - Restore power and gradually repressurize the system, checking for leaks or abnormal readings.
 - Verify sensor readings on the compressor's control panel.

Note: This sensor features a flange mount design. Ensure the mounting surface is clean and flat for a proper seal.

5. OPERATING INSTRUCTIONS

The MAKO AIRTEK Sensor operates as an integral part of your Fusheng FS Curtis Screw Air Compressor's control system. It continuously monitors specific parameters (e.g., temperature, pressure) and transmits data to the compressor's controller. There are no direct user operating controls for the sensor itself.

- **System Monitoring:** The compressor's control panel will display readings from the sensor. Regularly monitor these readings to ensure the compressor is operating within normal parameters.
- **Automatic Control:** The compressor's control system uses sensor data to regulate various functions, such as motor speed, cooling, and safety shutdowns.
- **Abnormal Readings:** If the control panel displays abnormal sensor readings or error codes related to the sensor, refer to the troubleshooting section of this manual and your compressor's main manual.

6. MAINTENANCE

The MAKO AIRTEK Sensor is designed for reliability and typically requires minimal direct maintenance. However, regular inspection and proper system maintenance are essential for its longevity and accurate performance.

- **Regular Inspection:** During routine compressor maintenance, visually inspect the sensor and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleaning:** If the sensor is exposed to dust or debris, gently clean its exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Connection Integrity:** Periodically check that the electrical connections to the sensor are tight and free from oxidation.
- **System Environment:** Ensure the compressor operates in a clean, dry environment to prevent premature sensor degradation.
- **Calibration:** Sensors generally do not require field calibration. If readings are suspected to be inaccurate, consult a qualified technician or consider replacement.

7. TROUBLESHOOTING

If you encounter issues related to the sensor, consider the following troubleshooting steps. Always refer to your compressor's main manual for specific error codes and diagnostic procedures.

Problem	Possible Cause	Solution
Inaccurate Sensor Readings	Loose or corroded electrical connections. Sensor contamination or damage. Faulty sensor.	Check and secure all wiring connections. Clean any corrosion. Inspect sensor for physical damage or buildup; clean gently if possible. Replace the sensor if it is confirmed faulty after other checks.
Compressor Error Code (Sensor Related)	Wiring fault (open circuit, short circuit). Sensor outside operating range. Sensor failure.	Consult compressor manual for specific error code diagnostics. Check wiring continuity and resistance. Verify system operating conditions are within sensor specifications. Replace sensor if diagnostic tests confirm failure.
Sensor Not Detected	Incorrect wiring. Loose connection. Sensor failure.	Verify wiring against compressor diagram. Ensure connections are secure. Test sensor functionality; replace if necessary.

If troubleshooting steps do not resolve the issue, contact a qualified service technician or MAKO AIRTEK support for further assistance.

8. SPECIFICATIONS

Attribute	Detail
Brand	MAKO AIRTEK
Model Number	2105049966
Part Number	2105049966
Mounting Type	Flange Mount
Compatibility	Fusheng FS Curtis Screw Air Compressors (Direct Replacement)
Material Quality	High Quality Raw Materials
Manufacturing Standard	Meets Original Manufacturing Standard

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your MAKO AIRTEK Sensor, please contact MAKO AIRTEK directly. Ensure you have your product model number (2105049966) and purchase details available

when contacting support.

Contact Information:

If there's any problem, please do not hesitate to contact us. We will reply to you within 1 business day (not including Public holidays).

Work Hours: Monday to Friday

For further assistance, you may visit the [MAKO AIRTEK Store on Amazon](#).