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AMECA 1350

Manitowoc Ice Machine Probe Sensor Instruction Manual

Model: 1350 | Brand: AMECA

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the AMECA Manitowoc Ice Machine Probe Sensor, Model 1350. This probe sensor is designed to accurately measure ice thickness in compatible Manitowoc ice machines, ensuring optimal performance and ice production.

Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage to the unit or the ice machine.

2. Product Overview

The AMECA Probe Sensor is an essential component for Manitowoc ice machines, specifically designed to monitor and regulate ice thickness. Its robust construction ensures reliable performance in demanding environments.



Figure 2.1: AMECA Manitowoc Ice Machine Probe Sensor, Model 1350. The image displays the compact white plastic housing of the sensor, with red electrical wires extending from one end. A small metal contact is visible at the opposite end, designed for ice thickness detection. The overall dimensions are approximately 4 inches in length and 3-1/4 inches overall.

Key Features:

- Ice thickness probe, approximately 4 inches in length with a 3-1/4 inch overall dimension.
- Designed for specific Manitowoc Ice Machine Series.
- Ensures accurate ice level detection for efficient operation.

Compatible Manitowoc Ice Machine Series:

- Q Series (excluding Q130, Q210, Q270)
- Q Series ending in P (Prison) and C (Dual C Units)
- B Series
- J Series

3. Setup and Installation

Installation of the probe sensor should be performed by a qualified technician. Always disconnect power to the ice machine before beginning any installation or maintenance procedures.

Required Tools:

- Screwdriver set
- Wire strippers/crimpers (if wiring modifications are needed)
- Multimeter (for testing connections)

Installation Steps:

1. **Power Disconnection:** Ensure the ice machine is completely disconnected from its power source. Verify with a multimeter.
2. **Access Panel Removal:** Locate and carefully remove the access panel(s) on the ice machine that provide access to the existing ice thickness probe.
3. **Old Probe Removal:** Disconnect the wiring from the old probe sensor. Note the orientation and connection points. Carefully unmount and remove the old probe.
4. **New Probe Installation:** Mount the AMECA Model 1350 probe sensor in the same location and orientation as the old probe. Ensure it is securely fastened.
5. **Wiring Connection:** Connect the wiring to the new probe sensor, ensuring correct polarity and secure connections. Refer to the ice machine's service manual for specific wiring diagrams if necessary.
6. **Secure Components:** Ensure all wires are neatly routed and secured to prevent interference with moving parts or ice production.
7. **Panel Reinstallation:** Reinstall all access panels securely.
8. **Power Reconnection and Test:** Reconnect power to the ice machine. Initiate a test cycle to verify the new probe sensor is functioning correctly and the ice machine is producing ice as expected.

4. Operating Principles

The AMECA Probe Sensor operates by detecting the presence and thickness of ice on the evaporator plate. When ice reaches a predetermined thickness, the sensor signals the ice machine's control board to initiate the harvest cycle, releasing the ice into the bin.

Proper functioning of this sensor is critical for efficient ice production and to prevent issues such as over-freezing or under-freezing.

5. Maintenance

Regular maintenance of the ice thickness probe ensures its longevity and accurate operation. Always disconnect power to the ice machine before performing any maintenance.

Cleaning:

- **Frequency:** Inspect the probe sensor during routine ice machine cleaning cycles, typically every 3-6 months, or more frequently in hard water areas.
- **Procedure:**
  a. Disconnect power to the ice machine.
  b. Access the probe sensor.
  c. Gently wipe the sensor's contact surface with a soft cloth dampened with a mild, food-grade descaling solution or a mixture of water and white vinegar.
  d. Rinse thoroughly with clean water to remove any residue.
  e. Ensure the sensor is dry before reconnecting power.

Inspection:

- Check for any visible signs of damage, corrosion, or wear on the probe and its wiring.
- Ensure all connections are secure and free from corrosion.
- If any damage is observed, replace the probe sensor immediately.

6. Troubleshooting

This section provides solutions to common issues that may arise with the ice thickness probe sensor. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Ice machine not harvesting ice or producing thin ice.	Dirty or scaled probe sensor. Faulty probe sensor. Loose wiring connection.	Clean the probe sensor as per maintenance instructions. Test the probe sensor with a multimeter; replace if faulty. Check and secure all wiring connections.
Ice machine over-freezing (ice too thick, difficult to harvest).	Probe sensor not detecting ice thickness correctly. Sensor positioned incorrectly.	Clean the probe sensor. Verify the probe's position and ensure it is not obstructed. If issues persist, the probe may be faulty and require replacement.
No ice production.	Completely faulty probe sensor. No power to the sensor.	Test for continuity and resistance; replace if open circuit or incorrect readings. Check power supply to the sensor and associated fuses/breakers.

7. Specifications

Attribute	Detail
Product Type	Ice Thickness Probe Sensor
Brand	AMECA
Model Number	1350
Overall Dimensions	Approximately 4 inches (length), 3-1/4 inches (overall)
Compatibility	Manitowoc Ice Machine Q Series (except Q130, Q210, Q270), Q Series ending in P & C, B Series, J Series
Manufacturer	AMECA
ASIN	B0F1N3ZTR4
First Available Date	March 17, 2025

8. Warranty and Support

For any questions regarding compatible models, part numbers, or technical assistance, please contact the manufacturer or your supplier. While specific warranty details are not provided in this manual, it is recommended to retain your purchase receipt for any warranty claims.

If you have any questions about models or part numbers, please contact us for assistance.

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