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Winters Instruments TSD9ITSD6

Winters TSD Series Industrial 9IT Digital Thermometer

Model: TSD9ITSD6
Brand: Winters Instruments

Introduction

This manual provides essential information for the safe and effective operation of your Winters TSD Series Industrial 9IT Digital Thermometer. This device is designed for accurate temperature monitoring in industrial applications, including plumbing and facility maintenance. Please read this manual thoroughly before installation and use.

Safety Information

- Always ensure the thermometer is installed by qualified personnel in accordance with local codes and regulations.
- Do not expose the device to temperatures outside its specified operating range (-10 to 65 degrees C / -14 to 150 degrees F).
- Handle the brass thermowell and stem with care to prevent damage.
- Avoid direct impact to the display body.
- Disconnect power sources if applicable before performing any maintenance or installation.

Product Overview

The Winters TSD Series Industrial 9IT Digital Thermometer features a solar-powered LCD display and a robust design for industrial environments.



Image: Winters TSD Series Industrial 9IT Digital Thermometer. This image shows the complete assembly of the digital thermometer, including the top solar panel, the LCD display unit, the adjustable angle mechanism, and the brass thermowell with its threaded connection.

Key Features:

- Digital thermometer for monitoring temperature in industrial applications such as plumbing and facility maintenance.
- Measures temperature from -45 to 260 degrees C (-50 to 320 degrees F), with an accuracy of + or - 1% of the reading.
- Solar-powered display with backup battery operates in varying light conditions.
- Operator can choose to display readings in degrees Fahrenheit or Celsius.
- 6" long stem-style probe with removable brass thermowell that helps protect the sensor from damage due to impacts and abrasion.

Specifications

Attribute	Value
Temperature Measurement Range	-45 to 260 degrees C (-50 to 320 degrees F)
Accuracy	+ or - 1% of the reading
Update Rate	6 seconds
Operating Temperature Range	-10 to 65 degrees C (-14 to 150 degrees F)
Enclosure Ingress Protection Rating	NEMA 5/IP54
Display Dimensions (H x W)	63.7 x 116.7 mm (2.55 x 4.67 in.)
Stem Length	6 inches
Thermowell Connection	3/4" NPT
Connection without Thermowell	1-1/4" UNEG swivel nut
Display Type	LCD
Power Source	Solar Powered (with battery backup)
Outer Material	Brass (Thermowell) / ABS Plastic (Display Body)
Model Number	TSD9ITSD6
UPC	628311004311, 628311005011

Setup and Installation

Proper installation is crucial for accurate readings and device longevity. Follow these steps:

1. **Choose Location:** Select a location that provides adequate light for the solar panel and is representative of the temperature to be measured.
2. **Thermowell Installation:**
    - If using the brass thermowell, ensure the mating connection (e.g., pipe fitting) is compatible with a 3/4" NPT thread.
    - Apply appropriate thread sealant to the thermowell threads.
    - Carefully thread the thermowell into the connection point until secure. Do not overtighten.
3. **Probe Insertion:**
    - Insert the 6" stem-style probe into the thermowell.
    - If not using the thermowell, connect the 1-1/4" UNEG swivel nut directly to the appropriate fitting.
4. **Adjust Display Angle:** The display body features an adjustable angle mechanism. Loosen the locking nut, adjust

the display to a comfortable viewing angle, and then tighten the nut to secure it.

5. **Initial Power-Up:** The device will power on automatically when sufficient light is available for the solar panel (greater than 16 lux). If light levels are low, it will switch to battery power.

Operating Instructions

Temperature Display:

The LCD screen will display the current temperature reading. The display updates approximately every 6 seconds.

Unit Selection (Fahrenheit/Celsius):

The thermometer allows you to switch between Fahrenheit (°F) and Celsius (°C) units. Refer to the device's specific button or switch for unit selection. (*Note: Specific button location or method for unit selection is not detailed in product description, refer to device markings.*)

Power Management:

The thermometer primarily operates on solar power when light levels exceed 16 lux. In low light conditions, it automatically switches to its internal battery backup to ensure continuous operation.

Maintenance

- **Cleaning:** The display body and thermowell can be cleaned by wiping them with a clean, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the thermowell and stem for any signs of damage, corrosion, or wear. Ensure all connections remain secure.
- **Solar Panel:** Keep the solar panel clean and free of obstructions to ensure optimal charging.

Troubleshooting

Problem	Possible Cause	Solution
Display is blank or dim.	Insufficient light for solar panel; battery low or depleted.	Ensure the solar panel is exposed to adequate light (above 16 lux). If in a consistently low-light environment, the internal battery may need replacement (consult manufacturer for service).
Inaccurate temperature readings.	Improper installation; sensor not fully immersed; external heat sources; damaged sensor.	Verify the probe is correctly installed and fully immersed in the medium being measured. Check for any external heat or cold sources affecting the sensor. If issues persist, the sensor may be damaged and require professional inspection.

Display not updating.	Device malfunction.	The display updates every 6 seconds. If it remains static for an extended period, try moving the device to a brighter area. If the problem persists, contact customer support.

Warranty and Support

For warranty information, technical support, or service inquiries, please contact Winters Instruments directly. Refer to their official website or the product packaging for the most current contact details.
You can visit the official Winters Instruments Store for more information:Winters Instruments Store

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Manual Version: 1.0

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