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Toro TEMP-4-DC

Toro Tempus WP 4-DC-L BT 4-Zone Bluetooth and LCD Control Box

Model: TEMP-4-DC

Introduction Safety Overview Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Toro Tempus WP 4-DC-L BT 4-Zone Bluetooth and LCD Control Box. This battery-operated irrigation controller is designed for efficient water management in areas without mains power, offering intuitive programming via Bluetooth connectivity and a clear LCD display.



Figure 1.1: Front view of the Toro Tempus DC-LCD Control Box, showing the LCD screen and control buttons.

2. Safety Information

Please read all safety instructions carefully before installing or operating the control box. Failure to follow these instructions may result in property damage or injury.

- **Battery Safety:** Use only specified battery types (9V for Tempus DC, 4 AAA for Tempus DC-LCD). Do not mix old and new batteries, or different types of batteries. Dispose of batteries according to local regulations.
- **Water Exposure:** While the unit is IP68 rated and 100% waterproof, ensure all connections are secure to maintain water integrity, especially when installed in a valve box.
- **Electrical Safety:** This device operates on low voltage DC power from batteries. Do not connect to AC mains power.
- **Installation:** Ensure the control box is installed in a location that is accessible for maintenance but protected from tampering.
- **Temperature:** Operate within the specified temperature range of -10°C to +50°C.

3. Product Overview

The Toro Tempus WP 4-DC-L BT is a robust, battery-powered irrigation controller designed for reliability and ease of use. It features a large LCD display for direct programming and Bluetooth connectivity for advanced control via a smartphone application.

3.1 Key Features

- **IP68 Waterproof Rating:** 100% waterproof casing, suitable for installation in valve boxes.
- **Bluetooth Smart Connectivity:** Program and manage your irrigation system wirelessly via the Toro Tempus DC app.
- **Large LCD Display:** Provides clear visibility and allows for direct programming without the app.
- **4 Independent Programs:** Allows for flexible scheduling tailored to different watering needs.
- **Seasonal Adjustment (0-200%):** Easily adjust watering times throughout the year.
- **Permanent Memory:** Retains programming even during battery changes.
- **Sensor Compatibility:** Supports wired and wireless rain/freeze sensors.



Figure 3.1: Illustration of the Toro Tempus DC Series Controller highlighting its key features and benefits, including battery operation, Bluetooth connectivity, display versions, station capacity, independent programs, and programmable calendar scheduling.

3.2 Package Contents

Verify that all components are present:

- Toro Tempus WP 4-DC-L BT Control Box
- User Manual (this document)
- (Batteries not included, purchase separately as specified)

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the back of the control box.
2. Open the battery compartment cover.
3. Insert **four (4) AAA batteries**, ensuring correct polarity (+/-).
4. Securely close the battery compartment cover to maintain the waterproof seal.

4.2 Mounting the Control Box

The Tempus DC-LCD is designed for installation directly in a valve box or mounted on a wall. For valve box installation, ensure the box is large enough to accommodate the controller and wiring.

- **Valve Box Installation:** Place the controller securely within the valve box, ensuring the display is visible and accessible if needed. The IP68 rating allows for submersion.
- **Wall Mounting (Optional):** If mounting outside a valve box, use appropriate screws and anchors for the mounting surface. Ensure it is in a shaded area to protect from direct sunlight, though the unit is UV resistant.

4.3 Wiring Connections

Connect the solenoid valves and optional sensors to the control box terminals.

1. **Valve Wiring:** Connect the common wire from all solenoid valves to the terminal marked 'C' (Common). Connect each individual zone wire to its corresponding numbered terminal (1, 2, 3, 4).
2. **Sensor Wiring (Optional):** If using a wired rain or rain/freeze sensor (e.g., Toro TRFS), connect its wires to the designated sensor terminals. Refer to the sensor's specific manual for wiring details.

SPECIFICHE TECNICHE

Dati tecnici

- Tempi di irrigazione da 1 minuto a 8 ore (incrementi di 1 min.)
- Programmazione dell'irrigazione flessibile:
  – Ogni giorno
  – Settimanale
  – Irrigazione a giorni pari e dispari
  – Irrigazione a intervalli da 1 a 31 giorni
- Programmazione sovrapponibile
- Avviamento automatico, semi-automatico e manuale
- Memoria permanente
- Sospensioni per pioggia programmabili da 1 fino a 15 giorni o "permanente"

Elettrico

- Valutazione IP68, impermeabile al 100%
- Alimentazione a batteria (4 batterie da 1,5 V per il modello LCD; batteria da 9 V per il modello senza LCD)
- Temperatura di esercizio: -10 °C + 50 °C
- 9 V c.c. di potenza bistabile
- Massima distanza di 300 m tra programmatore e solenoide bistabile c.c. (sezione del cavo di 0,75 mm^2)

Dimensioni

- TEMPUS™ DC senza LCD:
  12 cm x 11,5 cm x 5 cm (largh. x alt. x prof.)
- TEMPUS™ DC con LCD:
  10,5 cm x 15,5 cm x 5 cm (largh. x alt. x prof.)
- Peso:
  – TEMPUS™ DC senza LDC: 250 g
  – TEMPUS™ DC con LCD: 260 g

Garanzia

- 2 anni

PRODOTTO IN EVIDENZA

FACILE DA PROGRAMMARE

La connettività Bluetooth è integrata per consentire una programmazione intuitiva tramite il vostro dispositivo grazie alla nuova app Tempus DC.



Download on the App Store GET IT ON Google Play

LISTA DEI MODELLI – SERIE TEMPUS™ DC

Modello	Descrizione
TEMP-1-DC	Tempus DC, programmatore alimentato a batteria, 1 settore con Bluetooth, senza LCD
TEMP-2-DC	Tempus DC, programmatore alimentato a batteria, 2 settori con Bluetooth, senza LCD
TEMP-4-DC	Tempus DC, programmatore alimentato a batteria, 4 settori con Bluetooth, senza LCD
TEMP-6-DC	Tempus DC, programmatore alimentato a batteria, 4 settori con Bluetooth, senza LCD
TEMP-1-DC-L	Tempus DC, programmatore alimentato a batteria, 1 settore con Bluetooth e LCD
TEMP-2-DC-L	Tempus DC, programmatore alimentato a batteria, 2 settori con Bluetooth e LCD
TEMP-4-DC-L	Tempus DC, programmatore alimentato a batteria, 4 settori con Bluetooth e LCD
TEMP-6-DC-L	Tempus DC, programmatore alimentato a batteria, 4 settori con Bluetooth e LCD

Specifiche per gli ordinativi – TEMPUS DC

TEMP-X-DC-X			
Descrizione	*Settori*	*Versione*	*Filtro*
AVVERT	X	**DC**	X
TEMP—Programmatore Tempus	1—1 settori 2—2 settori 4—4 settori 6—6 settori	DC—Solenoide bistabile 9 V c.c.	L—Display LCD
Ad esempio: Per un programmatore Tempus 4 settori con display LCD, specificare: **TEMP-4-DC-L**			

Figure 4.1: Image showing both the Toro Tempus DC and Tempus DC-LCD models, illustrating their compact design suitable for valve box installation.

4.4 App Installation and Bluetooth Pairing

The Toro Tempus DC app allows for easy programming and management of your controller.

1. **Download the App:** Search for "Toro Tempus DC" in your smartphone's app store (Google Play Store for Android or Apple App Store for iOS).
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
3. **Pairing:** Open the Toro Tempus DC app. The app will guide you through the pairing process. The controller should appear as a discoverable device. Select it to connect.
4. **Initial Setup:** Follow the on-screen prompts in the app to complete the initial setup, including setting the current time and date.



Figure 4.2: The Toro Tempus DC-LCD controller shown with the Bluetooth symbol and icons for the Google Play Store and Apple App Store, indicating app compatibility for programming.

5. Operation

The Tempus WP 4-DC-L BT can be operated directly via its LCD screen and buttons, or more comprehensively through the Toro Tempus DC smartphone application.

5.1 Manual Operation (via LCD)

The LCD screen and buttons allow for basic programming and manual watering.

- **Navigation:** Use the arrow buttons to navigate through menus and adjust values. The 'OK' or 'Enter' button confirms selections.
- **Setting Time/Date:** Access the time/date setting menu to ensure accurate scheduling.
- **Manual Watering:** Initiate a manual watering cycle for a specific zone or all zones. Select the zone, set the run time, and confirm.
- **Program Review:** View existing program settings directly on the LCD.

5.2 App Operation and Programming

The Toro Tempus DC app provides a user-friendly interface for advanced programming and system management.

1. **Accessing Programs:** Open the app and connect to your controller. Navigate to the "Programs" section.
2. **Creating/Editing Programs:**
    - Select one of the four independent programs (P1, P2, P3, P4).
    - **Set Start Times:** Up to 3 start times per program.
    - **Set Run Times:** For each zone (1-4), specify watering duration from 1 minute to 8 hours.

    - **Set Watering Days:** Choose from daily, odd/even days, or interval watering (1 to 31 days).
3. **Seasonal Adjustment:** In the app, locate the seasonal adjustment feature. Adjust the watering duration for all programs from 0% (off) to 200% (double duration) in 10% increments to adapt to changing weather conditions.
4. **Rain Delay:** Temporarily suspend watering for a set period (e.g., 24, 48, 72 hours) in response to rainfall.
5. **Sensor Status:** Monitor the status of connected rain/freeze sensors within the app.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Toro Tempus WP 4-DC-L BT controller.

6.1 Battery Replacement

Replace batteries annually or when the low battery indicator appears on the LCD or in the app. The permanent memory will retain your programming during battery changes.

1. Open the battery compartment.
2. Remove old batteries.
3. Insert new **AAA batteries**, observing polarity.
4. Securely close the compartment cover.

6.2 Cleaning

Periodically clean the exterior of the control box with a damp cloth. Do not use abrasive cleaners or solvents.

6.3 Winterization (for cold climates)

In regions subject to freezing temperatures, it is recommended to:

- Remove the control box from the valve box or mounting location.
- Disconnect all wiring.
- Store the controller in a dry, frost-free environment.
- Remove batteries if storing for extended periods to prevent leakage.

7. Troubleshooting

Problem	Possible Cause	Solution
Controller display is blank.	Dead or incorrectly installed batteries.	Check battery polarity. Replace all batteries with new ones.
Zones not watering.	No power to valves (low battery). Incorrect wiring. Rain sensor activated. Program not set correctly. Water supply off.	Replace batteries. Verify all wiring connections are secure. Check rain sensor status in app or manually bypass. Review program start times, run times, and watering days. Ensure main water supply is on.
Cannot connect via Bluetooth.	Bluetooth off on phone. Controller too far from phone. App not updated.	Enable Bluetooth on your smartphone. Move closer to the controller (within 15m/50ft). Update the Toro Tempus DC app to the latest version.
Watering too much/too little.	Seasonal adjustment or program run times incorrect.	Adjust seasonal percentage or modify individual zone run times in the app.

8. Specifications

Feature	Detail
Model	TEMP-4-DC (4-Zone with LCD)
Power Source	4 x AAA batteries (Tempus DC-LCD)
Output Power	9V DC bistable
Dimensions (L x H x D)	10.5 cm x 15.5 cm x 5.0 cm (4.13 in x 6.10 in x 1.97 in)
Weight	260 g (0.57 lbs)
Number of Stations	4
Number of Programs	4 independent programs
Starts per Program	Up to 3
Watering Duration	1 minute to 8 hours (1-minute increments)
Programming Options	Daily, Odd/Even days, Interval (1-31 days)
Waterproof Rating	IP68 (100% waterproof)
UV Resistance	Yes
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Display Type	LCD (4 x 6 cm)
Connectivity	Bluetooth Smart
Sensor Compatibility	Wired (Toro TRFS) and Wireless (Toro TWRS, TWRFS) Rain/Freeze Sensors
UPC	021038982786



Figure 8.1: Technical specifications for the Toro Tempus DC controller, detailing battery type, dimensions, operating temperature, and sensor compatibility.

9. Warranty & Support

9.1 Warranty Information

The Toro Tempus WP 4-DC-L BT controller comes with a**2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, abuse, or acts of nature. Please retain your proof of purchase for warranty claims.

Note: Information regarding the availability of spare parts is currently unavailable.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Toro Customer Support. Visit the official Toro website for the most up-to-date contact information, including phone numbers and online support resources.

Toro Official Website: www.toro.com

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