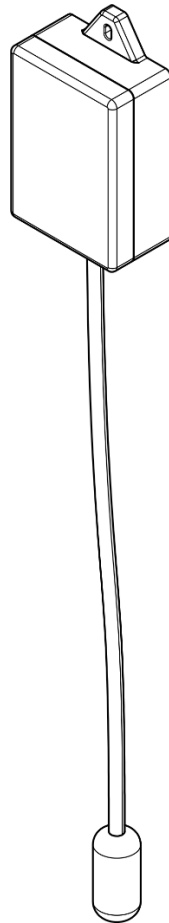




SENSORTECH



Trough D Tech® Monitor

User Manual


Version 1.1

May 19, 2026

Table of Contents

Table of Contents	ii
1. Introduction	3
1.1 Overview	3
2. Account and Notifications Setup	4
3. Installation	5
3.1 Installation Considerations	5
3.2 Included Hardware	5
3.3 T-Post Installation	6
3.3.1 Required Materials	6
3.3.2 Installation Procedure	6
3.4 Wooden Post Installation	8
3.4.1 Required Materials	8
3.4.2 Installation Procedure	9
4. Troubleshooting and Error Message	11
4.1 Trouble Shooting	11
4.2 Error Messages	11
5. Support	12
Appendix A: Light Indicator Patterns and Meanings	13
Revision History	14

California Prop 65 Information

-  **WARNING:** This product can expose you to chemicals including Lead which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

1. Introduction

This user manual provides the information necessary for effectively installing and using the Trough D Tech® Monitor and the associated web platform.

1.1 Overview

The Trough D Tech® monitors the water level in a stock tank and remains inactive until water levels go below the desired alarm level, i.e. 6"; at which point it alerts the user via their preferred method of email or text.

The monitor's ultra-low power consumption ensures a battery life of several years, minimizing the need for maintenance.

The web-based user interface allows users to customize notifications and monitor the unit's health.

Users receive notification in the following scenarios: Water Low, Low Battery, and Device Unresponsive. In addition, users can optionally receive periodic notifications confirming normal operation.

Note: The device requires 15 – 30 seconds below the user set alarm level to activate and send a notification.

2. Account and Notifications Setup



1. Scan the provided QR code, or navigate to <https://dtech.sensortechllc.com/provision>
2. Follow the instructions on the screen to start the provisioning timer.
3. Use a #1 Phillips screwdriver to remove the clear case top.
4. Connect the provided battery, ensuring it is positioned near the center at the top, with the red and green LEDs clearly visible.
5. Reinstall the clear case top, tightening it securely with the screwdriver to ensure a watertight seal. Avoid over-tightening to prevent cracking.
6. Test cellular transmission by quickly coining the monitor (rubbing a metal object against the two small screws on the top left side of the case) until red AND green LED lights begin flashing. If the transmission is successful, you will be notified via text or email within 2 minutes. If you do not receive a notification after 2 minutes, move the monitor to a higher area with greater cellular strength and repeat Step 6.

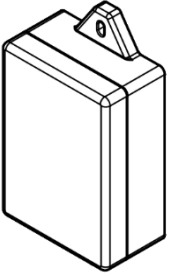
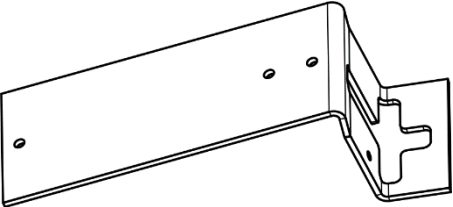


3. Installation

3.1 Installation Considerations

The Trough D Tech® monitor can be installed in a variety of locations, depending on the perceived risk. Below are common installation areas:

- On a T Post or Wood post near a water trough or stock tank. The post should be close enough to the tank so that the six (6) foot sensor cable can the tank and the sensor head can lay flat on the bottom of the tank.
- Recommended that monitor be installed on the opposite side of a trough or tank where livestock cannot reach the monitor and facing away so LED lights do not draw attention to livestock

3.2 Included Hardware

Ref. Number	Name	Qty.	Image
1 & 2	Trough D Tech® Monitor: Controller Case (1) w/ Sensor (2)*	1	
3	T-Post Bracket	1	
4	5/8" Thread-Cutting Mounting Screw	1	
5	1" Wood Mounting Screws	2	

The length of the cable between the Controller Case (1) and the Sensor (2) is approx. 72".

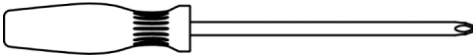
3.3 T-Post Installation

Read all instructions prior to beginning this procedure. Refer to

Figure 1 for a visual guide.

3.3.1 Required Materials

The following materials are not included but are required for completing this procedure.

Name	Image
Flat Head Screwdriver or 1/4" Socket	

3.3.2 Installation Procedure

Place the Trough D Tech® Monitor (1) against the T-Post Bracket (3) and insert a Mounting Screw (4) through the top flange of the monitor case, into the top-most hole in the bracket.

Test cellular transmission in the field by coining the Fence D Tech Monitor (1) (quickly rubbing a metal object against the two small screws on the bottom left side of the case until you see red and green LED lights begin flashing). If the transmission is successful, you will be notified via text or email within 2 minutes. If you do not receive a notification after 2 minutes, move the monitor to a higher area with greater cellular strength and repeat Step 5.

Place the T-Post Bracket (3) onto the desired T-Post, ensuring the monitor is on the opposite side of the trough or tank so that livestock cannot bother the monitor and that the six (6) foot sensor cable can reach so the sensor can rest on the bottom of the trough or tank. Consider securing the sensor cable to the T-Post with zip ties.

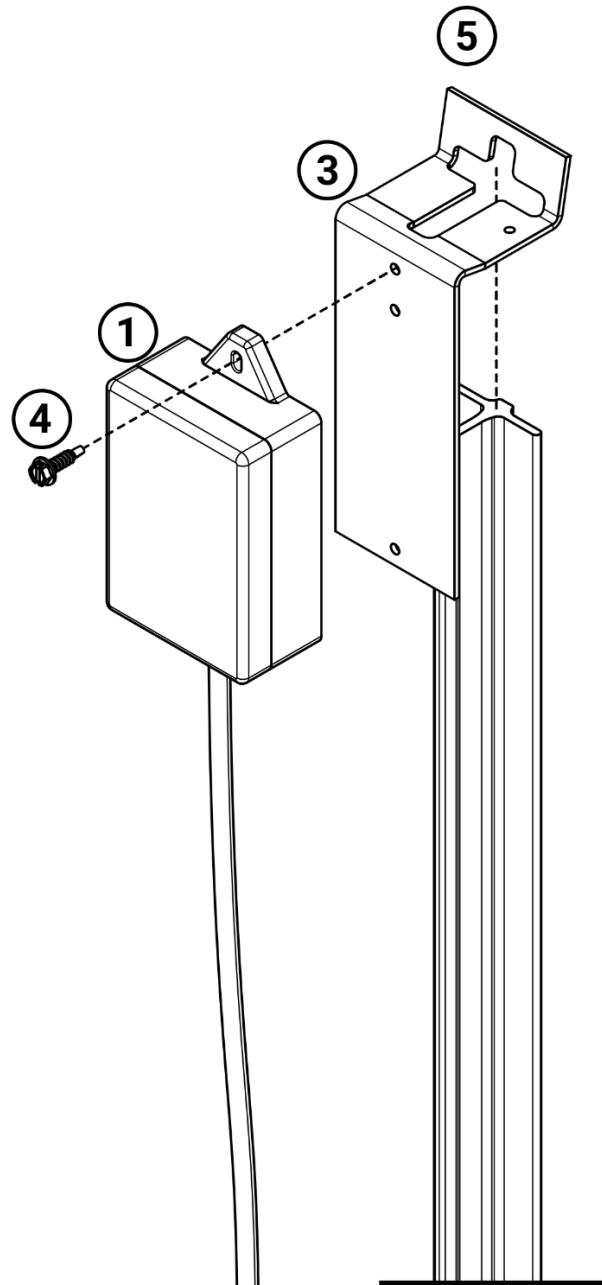


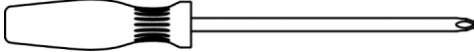
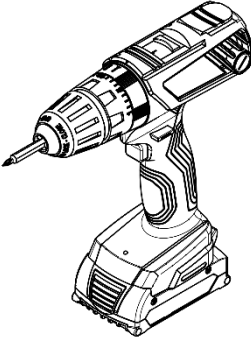



Figure 1: T-Post Installation

3.4 Wooden Post Installation

Read all instructions prior to beginning this procedure. Refer to Figure 2 for a visual guide.

3.4.1 Required Materials

The following materials are not included but are required for completing this procedure.

Name	Image
Flat Head Screwdriver or 1/4" Socket	
Recommended for Drilling Pilot Holes (Optional)	
Drill	
1/8" Drill Bit	
Pencil or Pen	
Recommended for Cable Management (Optional)	
Nail-in Wire Holder (Qty. 3+)	

3.4.2 Installation Procedure

Test cellular transmission in the field by coining the Trough D Tech® Monitor (1) (quickly rubbing a metal object against the two small screws on the bottom left side of the case until you see red and green LED lights begin flashing). If the transmission is successful, you will be notified via text or email within 2 minutes. If you do not receive a notification after 2 minutes, move the monitor to a higher area with greater cellular strength and repeat Step 5.

Place the Trough D Tech® Monitor (1) against the Wooden Post at your desired mounting location. Secure a Wood Screw (5) through the top flange of the monitor case into the wooden post. Secure a Wood Screw (5) through the bottom flange of the monitor case into the Wooden Post. Ensure the monitor is on the opposite side of the trough or tank so that livestock cannot bother the monitor and that the six (6) foot sensor cable can reach so the sensor can rest on the bottom of the trough or tank

Optional. Drill pilot holes by first marking the center of each mounting hole with a pencil/pen. Next, use a drill equipped with a 1/8" drill bit to drill into the post at each marked hole. Secure a Wood Screw (5) through the top flange of the monitor case into the wooden post. Secure a Wood Screw (5) through the bottom flange of the monitor case into the Wooden Post.

Optional. To secure cables, pull the cable tightly upwards from the Sensor Case (2) and center the Nail-in Wire Holder over the cable. Use a hammer to drive the Nail-in Wire Holder to the wall. Repeat as needed for additional cable support.

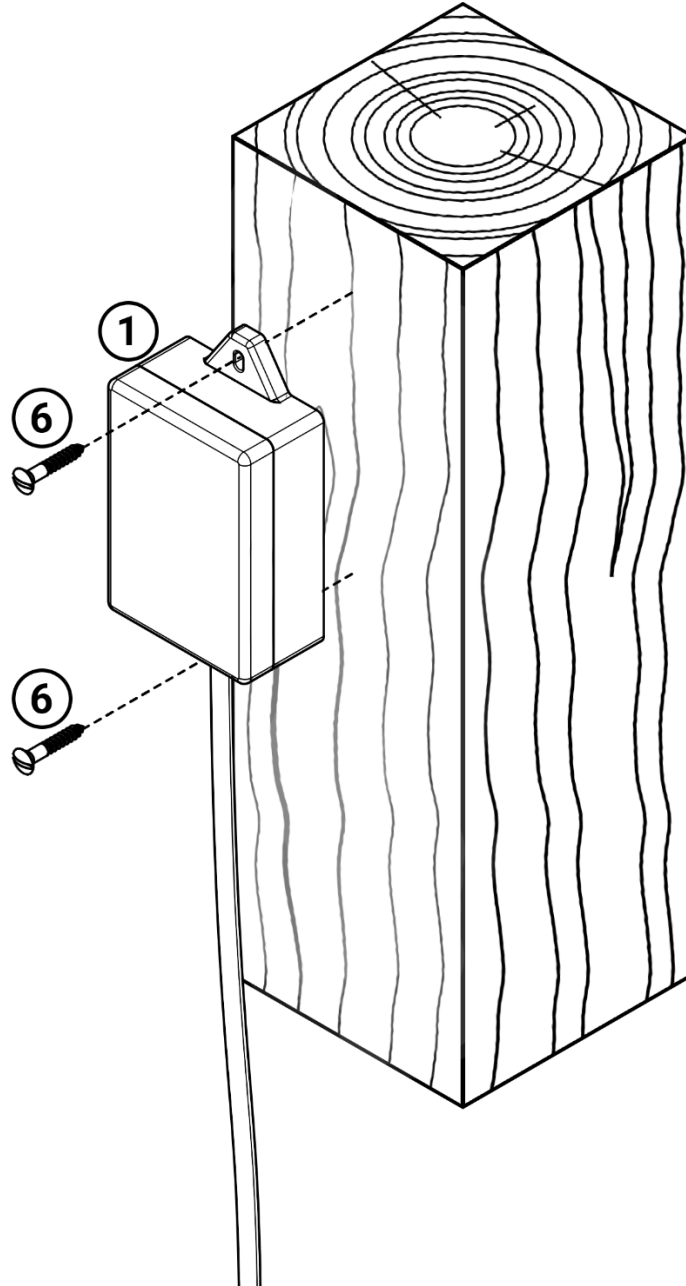


Figure 2: Wood Post Installation

4. Troubleshooting and Error Messages

4.1 Troubleshooting

Issue	Solution
Whenever the state changes, I see multiple red flashes after several seconds of alternating red and green.	The monitor is unable to establish a cellular connection. Move the box further up to improve its reception. If the problem continues, you may need to move the monitor to a location with more reliable cellular connection.

4.2 Error Messages

Below is a list of error messages a user may encounter. If an error occurs, a series of red flashes will display after 10 quick red flashes, indicating failed transmissions.

Number of Red Flashes	Meaning	Action Required
1	Hardware issue	Contact SensorTech, LLC Support or return the unit if within the 12-month warranty period.
2	SIM card issue	Verify SIM card is properly installed. If issue persists after several attempts, contact SensorTech, LLC Support or return the unit if within the 12-month warranty period.
3	Network error	Move the unit to a different location with better signal strength and try again. If problem persists after several attempts, contact SensorTech, LLC Support.
4	Network error	If problem persists after several attempts, contact SensorTech, LLC Support.
5	Connection error	If problem persists after several attempts, contact SensorTech, LLC Support.
6	Connection error	If problem persists after several attempts, contact SensorTech, LLC Support.
7	Low battery	Replace battery and try again.
8	Network error	If problem persists after several attempts, contact SensorTech, LLC Support.

5. Support

Please contact SensorTech, LLC for support or with any questions.

SensorTech, LLC: 316.267.2807 | support@sensortechllc.com

Appendix A: Light Patterns and Meanings

Pattern	Meaning
Alternating red and green flashes	The monitor is registering a change in state and will send a notification if it does not sense the water level rising above alarm level within 15 - 30 seconds.
10 rapid green flashes	The monitor successfully sent a notification.
Some rapid green flashes followed by several rapid red flashes	The monitor tried to send a notification but was unable to establish a reliable signal.

Revision History

Version	Date	Description of Change
1.0	5/1/25	Initial version.
1.1	5/19/26	Added 'Registered in U.S. Patent and Trademark Office' or 'Reg. U.S. Pat. & Tm Off.' or the letter R enclosed within a circle®." To indicate TM registration