



# Cyclone Pro Wind Sensor

## SET UP GUIDE

LTV-WSDR1

### Table of Contents

#### BASICS

Initial Setup 02-03

#### SENSORS

Wind Cup Installation 02

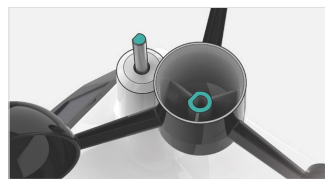
Placement & Mounting 03-05

Rain Sensor Cleaning 06

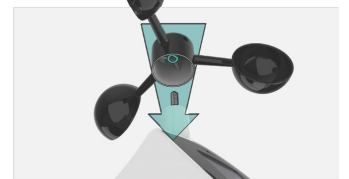
#### SENSORS

### Initial Setup

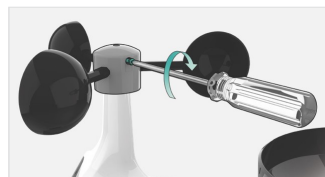
#### Installing the Wind Cups (if needed)



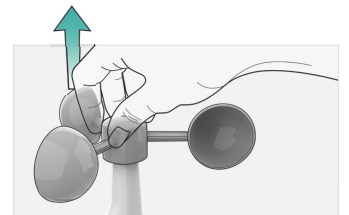
1. Remove the Cyclone Sensor, Wind Cups, and Mini Screwdriver from the package. Take note of the flat edges located on the head of the Cyclone Sensor and underside of the Wind Cups.



2. Align the flat edges and place the Wind Cups on top of the Cyclone Sensor.



3. Carefully tighten the screw on the side of the cups using the Mini Screwdriver. The screw should tighten into the flat edge of the post.



4. When the screw is tight, gently pull up on the cups to ensure they are secure. If they pull off, start again with step two.

SENSORS

## Sensor Placement & Mounting



### For Accurate Cyclone Sensor Measurements

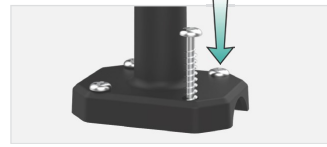
- Use the built-in Bubble Level to ensure the Cyclone Sensor (especially the rain gauge) is mounted level.
- Ensure the Solar Panel is facing to the South. This helps optimize battery life and transmit correct wind direction data.
- Ideally, the Cyclone Sensor should be mounted on the tallest object in your area. Avoid positioning the sensor parallel or below eaves, roof lines, trees, or other objects that may obstruct wind and rain readings.
- Make sure all the screws on the Mounting Bracket, Wind Cups, Wind Vane, and Battery Compartment are securely fastened.
- The Cyclone Sensor should be mounted with the Wind Cups on the top. See page 02 for wind cup installation information.

SENSORS

## Cyclone Sensor Mounting

### Basic Installation

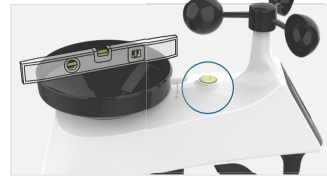
Fence posts, poles, decks, and mailboxes are common mounting options due to their convenience. Many users prefer these types of locations as the data they provides is accurate from their ground level. However, because the wind in these spots is often affected by obstructions, the readings may differ when compared to local reporting stations.



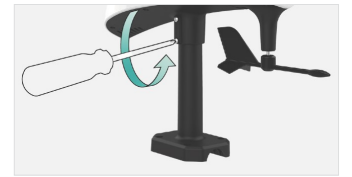
1. Mount the Mast to a flat surface with the four provided screws.



2. Clean out any leaves, insects, or other debris to ensure the Drainage Holes on the underside of the sensor are clear and the Rain Tipper can rock freely.



3. Check the integrated Bubble Level or use your own across the Rain Funnel to ensure the sensor is level.

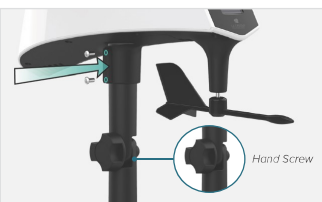


4. Secure the Cyclone Sensor to the Mast by tightening the screws on the side. After screws are tightened, double check the sensor has remained level through the installation process.

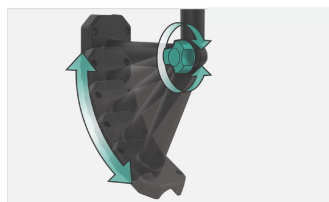
SENSORS

## Cyclone Sensor Mounting

### Flexible Installation



Install the Hand Screw to the bracket, then Secure the Cyclone Sensor to the Mast by tightening the screws on the side.



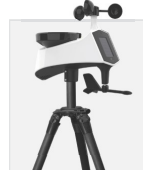
This configuration allows you to attach the sensor to angled locations and easily make adjustments to ensure the Mast and Sensor are level.

### Advanced Installation

Some advanced installation options include tripods, wall mounts, chimney mounts, and many others. Any of these can be combined with U-bolts for attachment onto a tall cylindrical conduit using our Adjustable Base. These options will require additional equipment and possibly professional help for best results.



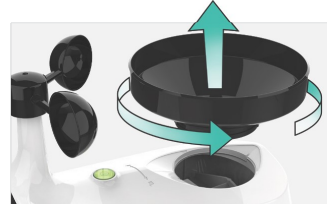
Freestanding Pole Setup  
1" Maximum Outside Pole Diameter



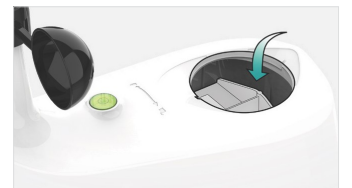
Tripod Setup Example  
1" Maximum Outside Pole Diameter

SENSORS

## Cleaning the Rain Sensor



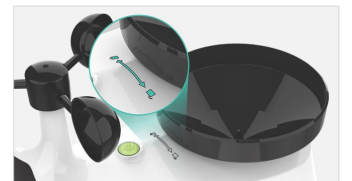
1. Remove the Rain Funnel by firmly twisting the funnel counter-clockwise and lifting up.



2. Clear any leaves, insects, or other debris to allow the Rain Tipper to rock freely. Check and clear the Drainage Holes located on the underside of the sensor.



3. After cleaning, re-install the Rain Funnel by placing it back into the sensor and twisting clockwise until secure.



4. You should feel the funnel lock into place when one of the arrows lines up with the center of the Lock/Unlock Line.

**Tip:** Remove the Cyclone Sensor's batteries before cleaning to avoid accidental rain readings.

## Specifications

### CYCLONE SENSOR (LTV-WSDR1)

- **Wind Speed Range:** 0 to 111 mph (0 to 178 kph)
- **Rainfall Range:** 0 to 393.6 Inches (0 to 9999 mm)
- **Transmission Range:** 400 feet (121 meters) open air
- **Power Requirements:** 3 "AA" Batteries (not included)
- **Update Interval:** Every 31 Seconds
- **Dimensions:** 13.77 in. L x 5.15 in. W x 17.44 in. H (35 cm L x 13.1 cm W x 44.3 cm H) with Bracket
- **Dimensions:** 13.77 in. L x 5.15 in. W x 9.13 in. H (35 cm L x 13.1 cm W x 23.2 cm H) without Bracket
- **Frequency:** 915MHz

The manufacturer is not responsible for any radio or TV interference caused by unauthorized changes or modifications to this equipment. Such changes or modifications could void the user authority to operate the equipment.

**All rights reserved.** This manual may not be reproduced in any form, even in part, or duplicated or processed using electronic, mechanical or chemical process without the written permission of the publisher.

This booklet may contain errors or misprints. The information it contains is regularly checked and corrections are included in subsequent editions. We disclaim any responsibility for any technical error or printing error, or their consequences.

All trademarks and patents are recognized.

### Battery Replacement Instructions

When batteries of different brand or type are used together, or new and old batteries are used together, some batteries may be over-discharged due to a difference of voltage or capacity. This can result in venting, leakage, and rupture and may cause personal injury.

- Always purchase the correct size and grade of battery most suitable for the intended use.
- Always replace the whole set of batteries at one time, taking care not to mix old and new ones, or batteries of different types.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+ and -).
- Remove batteries from product during periods of non-use. Battery leakage can cause corrosion and damage to this product.
- Remove used batteries promptly.
- For recycling and disposal of batteries, and to protect the environment, please check the internet or your local phone directory for local recycling centers and/or follow local government regulations.

## FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

**This device complies with Part 15 of the FCC Rules.**

**Operation is subject to the following two conditions:**

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

**Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Canada Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

**CAN ICES-3 (B)**

**Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.**

**L'exploitation est autorisée aux deux conditions suivantes :**

**(1) L'appareil ne doit pas produire de brouillage; (2) L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi,**

**même si le brouillage est susceptible d'en compromettre le fonctionnement.**