

Weather Station QUICK INSTALL GUIDE



www.weatherbug.com

GETTING STARTED

Before you install your WeatherBug weather station, please read and follow the safety instructions in the **RedBugBox Weather Station System Installation, Operations and Maintenance Manual**. It offers additional clarification on setup instructions that may not be included in this Quick Install Guide.

Carefully remove all items from the box and read this **Quick Install Guide** completely before starting your installation. Inspect each component for damage that may have occurred during shipping. Please contact WeatherBug Technical Support with any installation questions or issues at 1.800.624.4205 or email at support@aws.com.

Tools Required

The following is a suggested list of tools necessary to install the outdoor WeatherBug weather station and route the data cables into the building (actual tool requirements may vary depending on site configuration):

- Compass
- Step ladder (6–8 feet)
- Electric drill and masonry drill bits
- Flathead and Phillips screwdrivers
- Adjustable wrench
- Wrenches
 - 7/16 inch for Sensor Shelter nuts
 - 5/16 inch for Wind Sensor nuts
 - 3/8 inch for mast mounting brackets
 - 1/2 inch for mast mounting brackets
 - 9/16 inch for mast mounting brackets
 - 5/8 inch for mast mounting brackets
- Pliers
- Socket set (optional)
- Wire cutters for cable ties
- Level

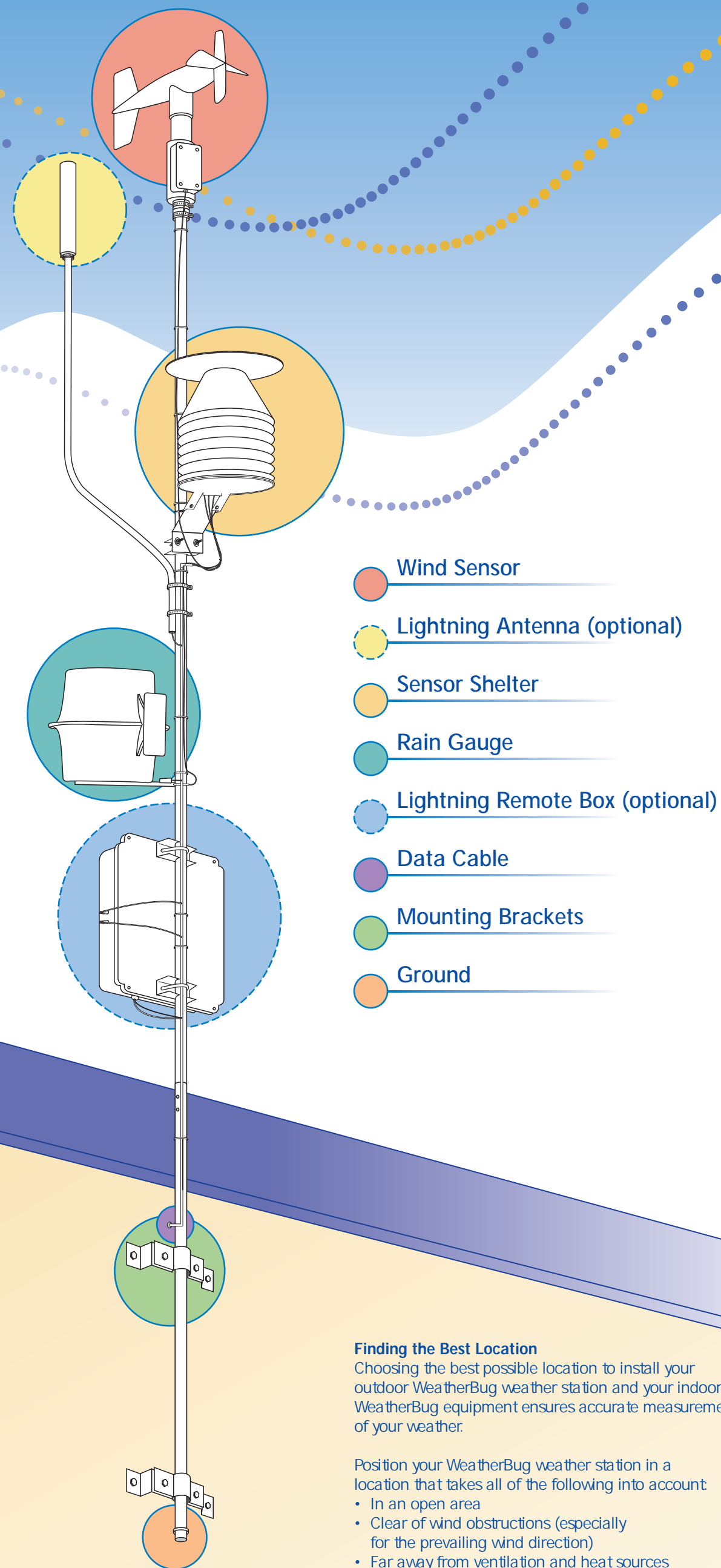
Parts Included

- Sensor Shelter (6-cone)
- Temperature/Relative Humidity (TRH) Sensor (installed in sensor shelter)
- Rain Gauge
- Wind Sensor
- Network Appliance - RedBugBox (RBB)
- RBB Power Supply
- Digital Display
- Display Connector Cable
- Display Power Supply
- Data Cable (200 ft. minimum, longer cables available)
- Ethernet LAN Cable
- Set of Cable Ties
- Power Strip
- Optional Parts
 - Lightning Antenna
 - Lightning Remote Box
 - Hose Clamps
 - Lightning TRH Cable
 - GPS Antenna
 - Lightning Alert Beacon

Required Parts Not Included

- Mast
 - Galvanized Rigid Conduit (GRC) Approximately 1/8 inch thickness (painted optional)
 - 1 1/4 inch maximum outside diameter (at top of mast)
 - Mast can be comprised of two sections that total a minimum of 15 feet when assembled. A two-section mast is recommended so the top section can be raised/lowered for easier installation and maintenance of the weather sensors.
 - (3) 1/4-20x2" grade 8 bolts with accompanying flat washer, lock washer, and nuts
- Mounting hardware (heavy-duty wall mounting brackets)
- Conduit for Data Cable
 - Select conduit type based on your local building codes
 - 1 3/4 inch outside diameter for weather station (and camera) cables
- Silicone caulk (to seal conduit and cable entry point into building)
- Grounding cable and appropriate connectors
- Grounding rod, if necessary
- Guy wire, if necessary to prevent top of mast from shaking

For your convenience, installation manuals and specifications on the parts and tools you need can be found at: <http://download.aws.com>



- Wind Sensor
- Lightning Antenna (optional)
- Sensor Shelter
- Rain Gauge
- Lightning Remote Box (optional)
- Data Cable
- Mounting Brackets
- Ground

Finding the Best Location

Choosing the best possible location to install your outdoor WeatherBug weather station and your indoor WeatherBug equipment ensures accurate measurement of your weather.

Position your WeatherBug weather station in a location that takes all of the following into account:

- In an open area
- Clear of wind obstructions (especially for the prevailing wind direction)
- Far away from ventilation and heat sources (minimum of 50 feet)
- Far away from electric lines, ventilation, and heat sources
- **Refer to *Installation Manual* for a full list of noise sources/equipment to avoid when installing the *Optional Lightning Package*
- Safe from vandalism
- Close enough for cables to connect to indoor equipment (cables are minimum of 200 feet)
- Wind sensor must be a **minimum** of 10 feet from roof
- Sensor shelter must be a **minimum** of 8 feet from roof

Locate your indoor WeatherBug equipment in a location that takes all of the following into account:

- Year-round power and Internet connection
- Close to computer and phone for technical support
- A secure area where equipment will not be tampered with or turned off

CAMERA OWNERS PLEASE NOTE:
The **Quick Install Guide** does not address installation of WeatherBug cameras. The additional steps required for camera installation are covered in the manuals that come with the camera. If you have a camera, please read through the camera manual in addition to the weather station manuals before starting the procedures outlined in the **Quick Install Guide**.

