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ATMOS41 Weather Station

Quick Start Guide



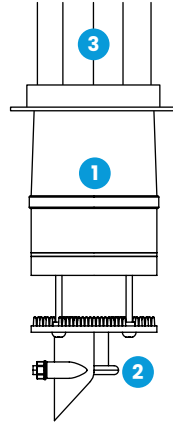
Preparation

- 1 Unpack the contents and check the component list in the box to ensure that the kit is complete.
- 2 Prepare installation equipment including a 13mm (1/2") spanner, a 42-48mm O.D. galvanised mounting pole, and the equipment required to install the pole. LX strongly recommends concreting the pole into a hole at least 200mm in diameter and 600mm deep.
- 3 This sensor requires a LX Blue Node, LX Power Junction and a power source such as an LX Solar Kit or Power Supply to function, which are available for purchase from [Incyt.io](https://www.lxinc.com).

Installation and Mounting

- 4 When selecting an installation location, ensure that it is clear of obstructions and objects that may interfere with rainfall collection and wind direction readings, such as trees or buildings. **Avoid installing more than 2m above from the ground.**
- 5 To improve signal strength, LX recommends fabricating a bracket as pictured in [Figure 1.1](#) to distance the Blue Node from the mounting pole. When installing the pole, ensure the bracket points towards the LX Base Station.
- 6 Mount the assembled weather station to the top of the pole. Tighten the V-bolt nuts by hand until hand-tight, and then tighten with a spanner. **Caution: Do not over tighten nuts**
- 7 Concrete the mounting pole into the hole, ensuring it is **sturdy**. Ensure the pole is **level** by using the spirit level located beneath the weather station.


Product Overview




- 1 ATMOS 41 Weather Station
- 2 V-bolt with nuts
- 3 Bird Spikes

Accuracy of the weather station will be reduced if not mounted completely level on a sturdy pole. If the area is excessively windy, consider shortening the pole height to reduce shaking or swaying of the weather station.

- 8 Orient the weather station with the engraved 'N' on the instrument pointed towards True North. True North can be found using a GPS device or compass.
- 9 Install the Blue Node to the end of the bracket as pictured in [Figure 1.1](#) according to its Quick Start Guide.
- 10 Install the Power Junction and Power Supply as per their Quick Start Guides. First connect the Weather Station and Power Source to the Power Junction. Then connect the Power Junction to the Blue Node.
- 11 Attach bird spikes to the rim of the rain collector, and ensure data is correctly reporting on the App before leaving.

 Protect cables from animals by installing sheathing from your local hardware store

 Fence off the weather station to protect from damage by animals.

