

## Archway Enterprise Technology Limited – 7m Mast system.

### 7m mast system - Information.



The mast equipment is presented in a zippered valise with a carry handle for ease of storage and transportation, containing the mast base spigot rod, claw hammer, all guy lines, ground pegs and a vertical spirit level.



## Archway Enterprise Technology Limited – 7m Mast system.

The 7m telescopic mast system has been tested with our full range of wind sensors in wind speeds of 25m/s, 90Kmh, 55.9Mph with no sensor deviation.

It can be erected by one person in 10 minutes.

Stage 1, locate the mast in a suitable position, drive the 50cm long 20mm diameter ground spigot into the ground to at least 30cm deep, this is the mast centre point.

Place the mast base over the ground spike.

Using the snap hooks provided, attach the 3 lower guy lines (blue) to the lower mast support plate, orientate 120 degrees from the mast, pull each guy line tight, anchor the guy lines with the ground pegs provided, adjust the guy lines if required.

Use the mast level indicator to ensure the mast is vertical, adjust as required.



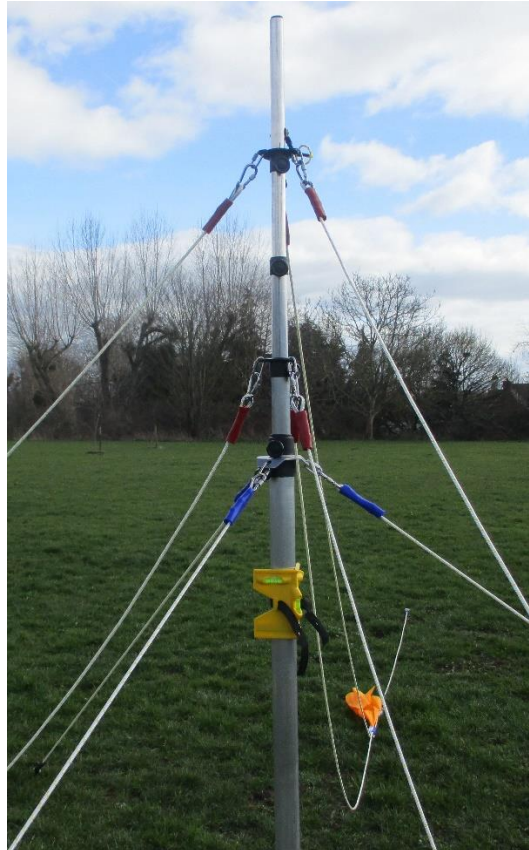
The top section will be used for mounting the wind sensor and data output connections.

## Archway Enterprise Technology Limited – 7m Mast system.

Stage 2,

The mast has 5 telescopic sections.

Unscrew the sections with the upper and middle guy line ring (5 and 2) and elevate as required to attach the 3 mast guy lines (red) to the middle and upper mast support plate ring connectors, lay each guy line away from the mast at 120 degree angles.



Attach the wind sensor and lay any sensor connecting cables towards the wind speed / direction display.



The mast has round screw threads that screw through the mast into a locking hole, these holes stop the mast from being over extended.

When extending the mast, blue horizontal lines warn the operator the mast locking port is 10cm away, the vertical lines are to help the operator to align the mast locking port to the screw thread.

When the yellow line is just showing above the black line, screw the thread fully home into the locking port.

For ease of operation, the inner hole is designed to be overly large.

## Archway Enterprise Technology Limited – 7m Mast system.

Stage 3, starting with the top section, elevate this until the lower blue line is visible, orientate this top section to align the screw / mast port, lock the screw into the mast.

Elevate and lock each mast section in turn, allow the mast guy lines to run clear until the mast is fully erected.

The ultrasonic sensor can be orientated to magnetic north at this time, twist the entire mast to point north.

Now taking each guy line in turn, pull the guy line hand tight, anchor the first guy line using one of the ground pegs provided, do not drive the anchor pegs fully into the ground at this stage, only enough to stop the guy line moving.

Move onto the next guy line and repeat the anchoring process.

Finally, anchor the third guy line..... Step away from the mast examine the mast for vertical from all 3 angles, adjust the ground pegs as required, check to see that the mast is vertical.

Now proceed to anchor the ground pegs so the mast is secure.



A full pictorial user manual is provided with each mast system.

It contains the “How to erect the mast” guide and full instructions for sensor mounting, cable management and how to operate the wireless Data TX system if required.

Of equal importance, it contains a “How to dismantle the mast” guide, storage instructions and essential maintenance to keep the mast in good condition.

## Archway Enterprise Technology Limited – 7m Mast system.

Items supplied as part of the 7m mast system.

1x zip fastening carry valise, containing.

1x 7m telescopic mast

1x 80cm x 20mm stainless steel ground spigot

1x Claw hammer

3x Lower mast fixation guy lines with stainless steel snap hooks / metalwork

3x Upper mast support Y guy lines with stainless steel snap hooks / metalwork

9x Ground anchor pegs

1x Vertical alignment spirit level.