



Base Station G201v1
Installation Guide

Introduction

The G201 base station is designed as a simple, easy-to-install system that can be used to offer RTK corrections at scale in a cost-effective manner.

The system is managed remotely by CSEQ Technologies; no configuration is required by the user.

Base stations and all ancillary equipment remain the property of CSEQ Technologies Ltd. As the custodian of the equipment, you agree to provide it with a stable source of power, internet connection and a suitable antenna location. In return, you are granted the use of one RTK signal free of charge. Further usage is charged at the discretion of CSEQ Technologies Ltd.

Failure to support the base station adequately (e.g. unreliable internet connection, frequent power loss or moving the antenna) may result in your offer being revoked and transferred to another user in your area.

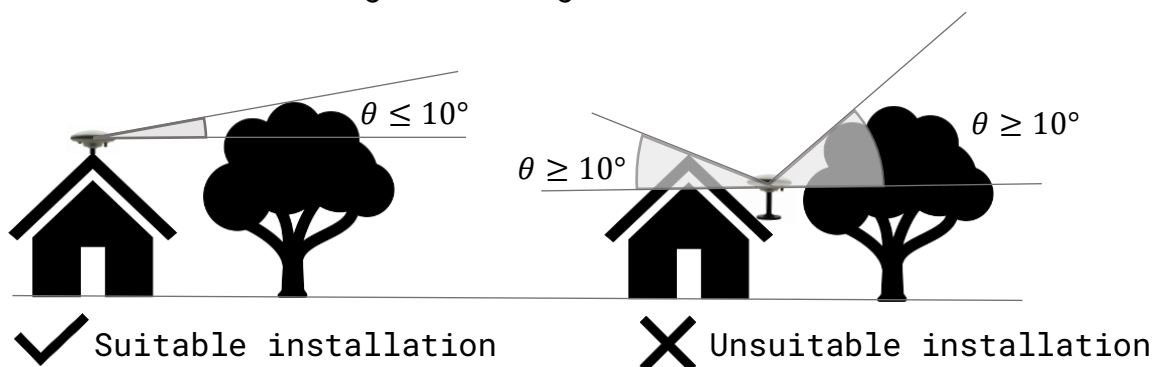
What's in the box?

- G201v1 unit
- Multi-band GNSS survey antenna
 - Magnetic mount and shaft
 - TNC to SMA cable – 5m (10m available upon request)
 - Right-angle bracket
- Power over Ethernet (POE) adaptor
- IEC C5 power cable – 1.5m
- 2 x RJ45 Ethernet cable – 5m (custom lengths are available upon request, up to 30m each)

Installation

Site Suitability

- You must choose a location for the antenna that has a clear, 360° view of the sky.
- The antenna must be level.
- There must not be any obstructions higher than 10° above the horizon in any direction – See diagram.
- The base station should be situated within a 5m cable run of the antenna (A 10m cable is available upon request). Further extensions will degrade signal quality.
- The antenna cannot be moved once installed. Please ensure your location is sturdy and permanent.
- The G201 base station unit must be installed indoors, in a dry and sheltered location. It can be screwed directly to a surface using the flanges on the enclosure.



Installing the Antenna

The antenna comes with a strong magnetic base which allows you to mount directly to solid (>1mm thick) steelwork.

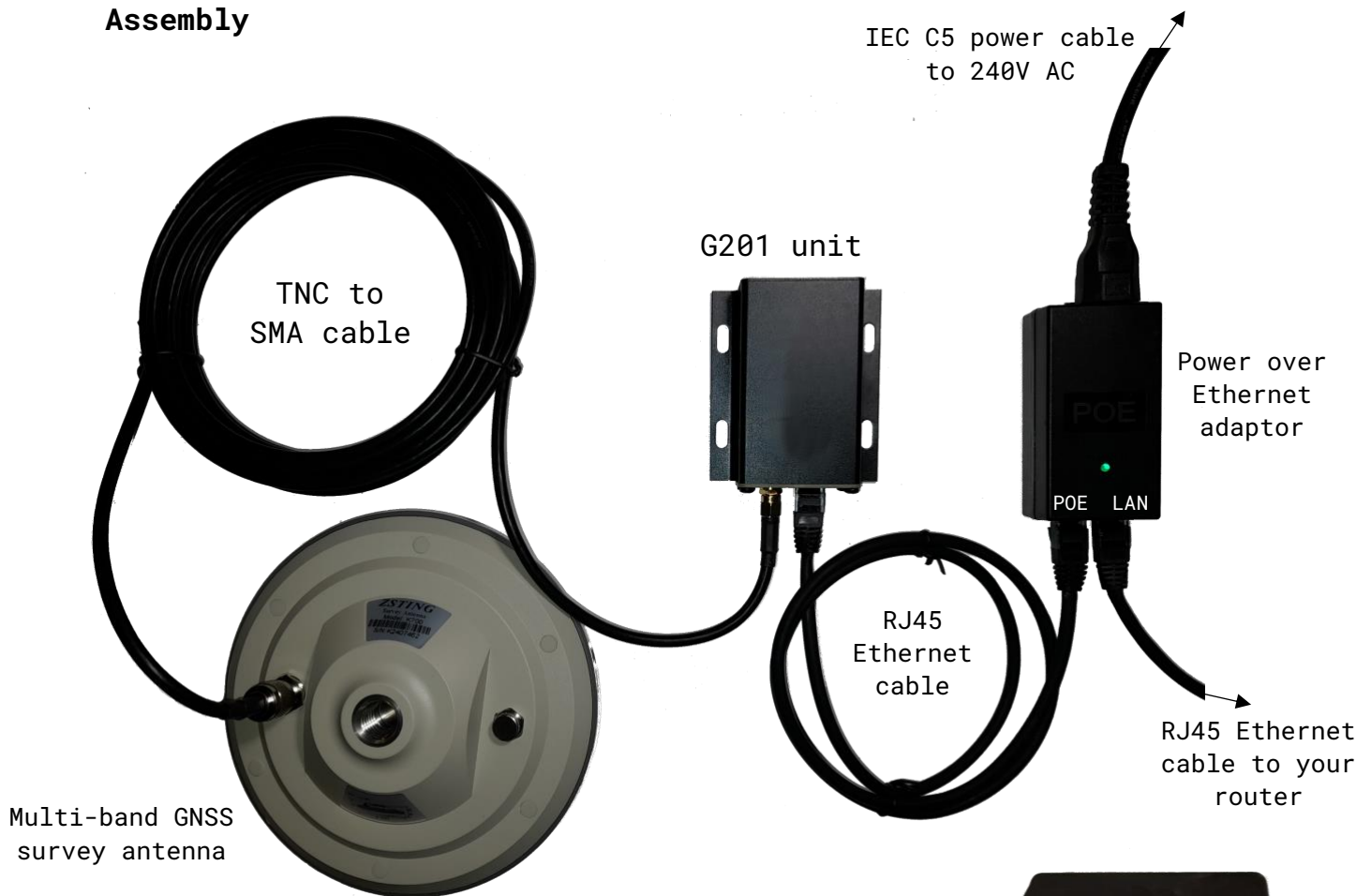
- Do not attach the antenna to lightweight steel or tinwork.
- You can screw the included right-angle bracket to a wall or gable and attach the magnet to the top.
- Ensure the antenna is level.

Running the cables

When entering the building, the cable must be run in a 'U' shape, so any water drips off before it goes through the wall. Ideally, this will also be done below the base station itself.

Connect the base station to the port on the power adapter labelled *POE*. The port labelled *LAN* connects to your router.

Assembly



Final Steps

Once the unit is powered and the two lights (Act and Spd) on the right hand side are lit and flashing (this can take up to 5 minutes), please email installations@cseq.co.uk to notify us that your base station is online. Please also include a picture of the antenna installation and the base station's location so we can ensure they are installed correctly.

Once notified, we will remotely access the base station and begin recording satellite observations for post-processing against the Ordnance Survey. You will receive login details for the correction signal once this process is complete - please allow up to 3 working days.

