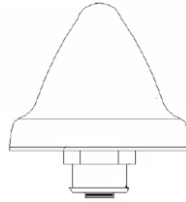


Safe GPS Antenna Location, Mounting & Installation

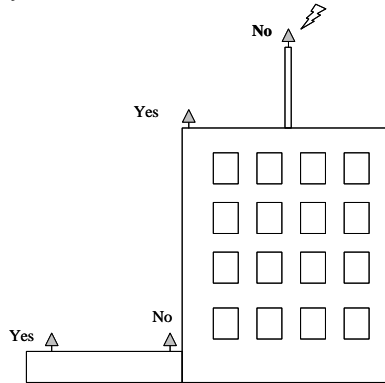
Introduction

This application note describes where and how to safely install a GPS antenna, as showed below, or the RA (Rooftop Antenna) option of our related products.



Recommended GPS antenna location

The antenna must be located on a place with a direct, constant and line-of-sight view of the satellites. Usually the best place is on the roof with no critical obstructions, such as other buildings surrounding the antenna location. However, to avoid lightning, it is critical that the antenna is not located at the highest point of its surrounding. See some recommended "yes-and-no" antenna location scenarios below.



Antenna mounting bracket

If the antenna mounting bracket (or the BRA option of our related products) is ordered, it allows the user to seamlessly mount the GPS antenna to the fix structure of the recommended location.



Lightning protection

A lightning surge arrester must be installed at the entrance of the building. It must be grounded to a lightning ground that is separated to the instrument ground. Please consult with your local regulation about this question. The surge arrester will not protect the GPS receiver against high voltage destruction from lightning, thus precautionary handling is strictly required for human safety during lightning conditions.

