

1. Presentation

In certain geographical area, for better GSM reception it is necessary to **install an external antenna outside the manhole.**

Different antenna positions must be tested before permanently fixing the antenna to a preferably non-metallic base.

Several possibilities are available for **hiding this external antenna.**

 In all cases, the tests recommended in the user manual are assumed to have been previously performed (start-up diagnostics using the indicator lights, reception level test with SOFTTOOLS, GSM communication test with a mobile phone, etc.).

2. Examples of potential locations

2.1. Antenna embedded in the road surface

A recess can be created in the asphalt (at the most 5cm deep) in which the antenna is placed.



External antenna covered with asphalt.

2.2. Surface-fitted antenna

Surface-fitted antennae must be protected and hidden.

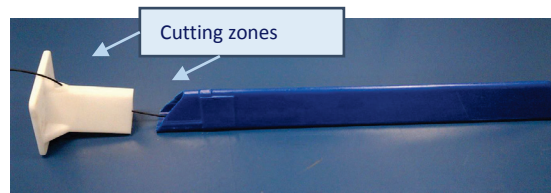
- in a standardised bollard:



- in a conventional bollard:



To insert the antenna, cut the base and the bollard as shown below, then slide the antenna into the slot, passing the connector and cable through the base.



Assemble the bollard and the base, and push the antenna up using the rigid cable. The base can be affixed to concrete or simply buried.