

Total solution for surveying tunnels



"Mobile solution for surveying tunnels"

"Setting out tunnels and gathering data"

A total solution for surveying tunnels: that is what the combination of Spanish company Aplitop and Topcon Europe Positioning B.V. provides. TCP-Tunnel is the latest line of software from Aplitop offering the best of both worlds. Aplitop specializes in the design and programming of technical applications for the fields of surveying and civil engineering.

"The software application TCP-Tunnel, installed on a Pocket PC, offers a mobile solution for surveying tunnels. Using Topcon's GPT-8000 and GPT-9000 Series total stations and the mobile Field controllers FC-100, FC-1000 or FC-200 Aplitop provides users with the most common options for setting out tunnels and gathering data from them", David Vargas of Aplitop explains. "Aplitop's main clients include; the public administration, universities and training centers, construction companies, engineering and town planning studios, quarries, mines, environmental services, as well as independent professionals."

"The TCP-Tunnel program offers complete control over the total station -including the compensator-, the laser pointer, measurements with or without prism and battery status, which are constantly monitored. As a prior step to surveying and setting out, the station should be oriented by one of the methods available: angular, coordinate or inverse intersection positioning."

"Each project is defined through the tunnel's ground plan and front plan alignments, super-elevations and tunnel templates. Three kinds of tunnel templates are supported: simple tunnel templates (an arch with a specific radius), compound tunnel templates (an arch with straight sidewalls) and complex tunnel templates (a succession of straight and curved sections). The tunnel template can be defined graphically by designating a polyline in AutoCAD."

"The application works with TCP-compatible ASCII files -Digital Terrain Model- although it also includes a PC program that facilitates the conversion of files into the most common files available in the market. All the data transferred between the PC and the mobile device is transmitted in a very simple way using Microsoft ActiveSync."

 **TOPCON**

Grupo inland
Avda de la Industria
28760 Tres Cantos
Telefon: +34.91.484.19.00