

'Unconventional' Total Station Series



With its ES series, Topcon Positioning Systems (TPS), USA, has announced the first series of new and unconventional reflectorless total stations, setting a new bar on performance, speed, accuracy and security. In addition to the security and maintenance system known as TSshield, the ES series features LongLink, a long-distance wireless communications system. The ES is available in 1, 2, 3, 5, and 7 arc second accuracy models.

The ES has a non-prism operating distance of 500m (1,640 feet), and 4,000m (13,120 feet) with a prism.

Topcon's LongLink communications technology, featuring Bluetooth Class 1 wireless technology, has a range of up to 300m (984 feet), and enables the ES field crew to function similarly to a robotic solution.

The telematics module, available through a future firmware update, will according to Topcon Positioning Solutions prove invaluable if the instrument is misplaced or stolen. It will be possible to send a coded signal to the instrument and disable it.

Owners will also receive on-screen notifications of software updates, which can be downloaded and installed over a WiFi connection anywhere in the world.

Brice Walker, vice president of survey sales, said that the ES series changes the perception and redefines what 'conventional' is in the survey and civil engineering industries. The pinpoint EDM beam spot ensures precise measurement, especially at shallow incidence angles that outdated technology can't provide.