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“Automated 3D Station NET05” Offers the Industry’s Highest Accuracy for Mammoth Structure Measurement

SOKKIA is proud to announce the release of the Automated 3D Station NET05 offering the industry’s highest accuracy for industrial, construction and deformation monitoring applications.

SOKKIA has been providing NET-series high precision 3D Stations for use in the measurement of ship blocks, bridge blocks, vehicles, large scale building construction as well as high accuracy deformation monitoring of tunnels, dams, buildings and landslides since 1990.

New NET05 provides the industry’s highest 0.5” (0.15mgon) angle measurement accuracy using a combination of SOKKIA’s unique IACS (Independent Angle Calibration System) technology and absolute encoders enhanced with market proven RAB code (Random Bidirectional code) technology.

NET05 measures prisms with the industry’s highest accuracy of (0.8mm + 1ppm) with a range of 3,500m (11,480ft.) and achieves sub-millimeter (0.5mm + 1ppm) accuracy up to 200m (650ft.) using reflective sheets. Reflectorless measurement can be performed with (1mm + 1ppm) accuracy up to 40m (130ft.). Measurement speed has been dramatically reduced to 2.4 seconds or less in fine measurement mode.

NET05 can automatically search and point to prisms and reflective sheets with an auto-pointing range of up to 1,000m (3,280ft.) using prisms and 50m (160ft.) using reflective sheet targets. A dedicated auto-pointing algorithm allows it to accurately sight the target closest to the telescope center, even if multiple prisms and other reflective objects are in the telescope’s field of view, enabling safe and reliable automatic monitoring of large structures, both existing and under construction, even without an operator.

IP64 dust and water protection - the highest for motorized total stations - allows use under the harsh conditions.

Bluetooth[®] technology enables wireless communication with a controller or PC up to 300m (980ft.). NET05 also incorporates the upgradeable Windows CE operating system and highly visible transreflective TFT LCD touch screen.

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