

# Leica SmartPole

Measure non-stop  
with setup On-the-Fly

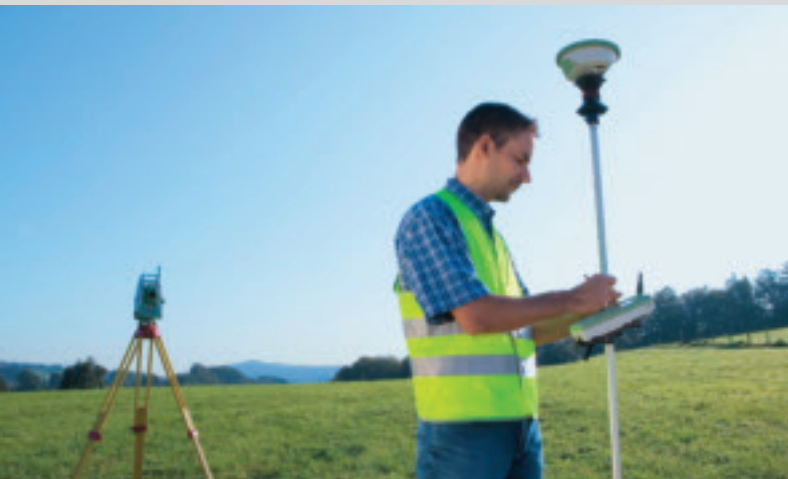


**GNSS**  
future proof



- when it has to be **right**

**Leica**  
Geosystems



Begin to measure without known control...



Choose any measured GNSS point as control...

# Leica SmartPole

## Measure non-stop with setup On-the-Fly

Leica SmartPole saves time in both the office and the field. No longer is it necessary to identify control points in the office and search for control in the field. Simply send one crew to complete the survey. Establish control with ease and freedom using SmartPole – GPS1200+. Benefit from less dependency on the maintenance and quality of existing control, and benefit from higher accuracy & consistency of GNSS control.

### Leica System 1200 the World's most complete Surveying System



Leica System1200 combines the most productive high-end total station with the fastest and most reliable RTK GNSS sensor in the market. Use the same components for both the Leica SmartStation and Leica SmartPole – whatever suits best. By truly complementing each other, SmartStation and SmartPole make System 1200 the most complete surveying system that offers high flexibility and grows with demands.



#### High performance 360° reflector

The unique light-weight 360° reflector supports high-accuracy measurements, allows connectivity of a Leica SmartAntenna and easily survives a topple-over. The perfect reflector for Leica SmartPole.

#### ATX1230+ GNSS Smart Antenna

The light-weight GNSS SmartAntenna incorporates GPS, GLONASS, Galileo and Compass technologies and provides SmartTrack+ supreme tracking performance. Complete flexibility for use with SmartPole, SmartStation or SmartRover.

#### RX1250Tc controller

The new WinCE controller includes an integrated spread-spectrum radio compatible with the TPS1200+ RadioHandle, and a next generation colour screen for bright, high contrast visibility in all conditions.

#### Quick-snap heights

With the new quick-snap telescopic pole, the correct reflector height can be quickly adjusted with the additional security of knowing the height will not change, even with rough treatment.

#### Ergonomic handling

The new telescopic pole includes a soft, yet robust, rubber grip that ensures comfortable handling for a complete day in all weather conditions.



Combine GNSS and TPS. Use them in the same way. Change easily from one to the other. Work faster, more accurately and more efficiently. Enjoy all the freedom, flexibility and power of System 1200.



**On-the-Fly survey and setup simultaneously...**

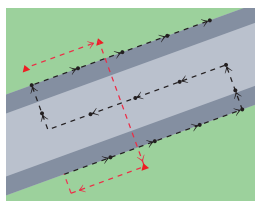


**Instantly switch between GNSS & TPS...**

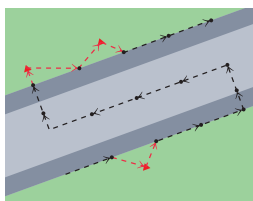
No longer is it necessary to first measure orientation points and only then detail points. Simply begin the survey and conduct the setup On-the-Fly whilst completing the survey. Once the TPS orientation and coordinates are known, all measured points are automatically updated. Save time in planning and executing the survey.

With Leica SmartPole, both TPS and GNSS are available at all times to ensure every point can be measured. When GNSS is restricted by overhead obstructions... use TPS; when no TPS line-of-sight is available... use GNSS. Benefit from easy-to-use GNSS and continuous productivity.

### Setup On-the-Fly



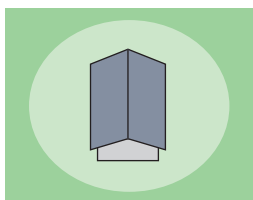
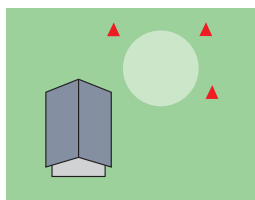
**Setup traditional**



**Setup Leica SmartPole**

No longer is there a requirement to first measure the orientation points and then measure details points. With SmartPole simply begin the survey. If a point can be measured with both GNSS and TPS, then this point can be used as an On-the-Fly control point. Choose control points that deliver the best geometric distribution whilst simultaneously completing the survey.

### Setup flexibility



The location of control points often restricts where the TPS can be placed. With SmartPole, the most convenient location can be chosen for the total station. Traversing is no longer required, each TPS set up can be conducted independently with new coordinates and orientation being determined with SmartPole - GPS1200+. Benefit from maximum flexibility and hence productivity.

## SmartPole Benefits:

### ■ Common Hardware Components

Leica SmartPole is fully compatible with System 1200. The same SmartAntenna can be used together with a TPS1200+ as a SmartStation, together with a RX1250 controller as a SmartRover or together with a 360° reflector and RX1250 controller as a SmartPole. Common hardware components reduce costs and increase the flexibility of equipment deployment.

### ■ Setup On-the-Fly

Leica SmartPole removes reliance on existing control and allows surveys to immediately begin. Avoid time consuming traverses to bring control to the survey area. Never make compromises with the TPS location and never search for control points. With SmartPole, setup the TPS in the most convenient location, instantly begin the survey and determine the TPS coordinates and orientation On-the-Fly whilst conducting the survey. Save time and money. Increase productivity and profits.

### ■ Increased Flexibility

Every survey site is different. Some are best suited to TPS, others to GNSS. With SmartPole both TPS and GNSS are available. When GNSS is restricted by overhead obstructions... use TPS; when no TPS line-of-sight is available... use GNSS. Benefit from easy-to-use GNSS and continuous productivity. If upon completing the SmartPole TPS setup GNSS is no longer needed, then the SmartAntenna can always be used as a SmartRover in parallel with the robotic TPS for double productivity.

Whether you want to survey a parcel of land or objects on a construction site, determine measured points on facades or in rooms, gather the coordinates of a bridge or a tunnel – Leica Geosystems' surveying instruments provide the right solution for every application.

The instruments as well as the software, are designed to meet the daily challenges of modern surveying. They all have outstanding, easy to read and user-friendly interfaces. Their straightforward menu structures, their clearly outlined scope of functions and high technology perfectly mate GNSS and TPS applications in the field. Whether you use the advantages of both technologies combined or each separately – due to the exceptional flexibility of Leica Geosystems instruments, reliable and productive surveying is assured.

**When it has to be right.**

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757156en – XII.08 – RDV



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Our commitment to total  
customer satisfaction**

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about our TQM program.

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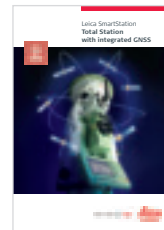
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Product brochure



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