LEICA TPS400 Series

5230

200





Easy, quick, reliable!

TPS400 Series The perfect solution for every construction site

Measuring with the new TPS400 series of total stations could not be easier! With a laser plummet and electronic level the instrument is quickly set up and ready to measure. The proven endless fine drive and the accurate Leica telescope with 30-times magnification precisely targets each measuring point. The integrated electronic distance meter measures to target plates, prisms or even reflectorless to any given surface. These features save time and money.

Your advantages in the field

- · Easy and direct operations using the function keys
- · Large, high resolution screen guarantees a clear display
- Intuitive program structure
- Integrated application programs
- · Compatible with external data storage
- · Robust and reliable made for the construction site



Easy to learn – Simple to use

The new generation of total station was designed to be simple to use. With only four function keys the instrument can be used to its fullest. The large illuminated display is clear and easy to read. All models of the TPS400 series support you with simple menu structures and integrated measuring programs that provide quick and simple solutions for your setting out & surveying tasks.

Individual data exchange

Data exchange has been implemented in such a flexible way that just about any format can be created and transferred from the instrument to your computer. The required programs are delivered with the instrument. You can also create your personal instrument configuration that can be transferred to other instruments of the TPS400 family.

Rough and tough

The TPS400 series was specially designed for the construction site. It is splash and dust proof (IP54) and thus well protected against adverse environmental influences.



Inaccessible measuring points are a thing of the past! TPS400 instruments also measure without reflector quickly and precisely. Circumvent any obstacle at the construction site. The visible laser beam is ideal for setting out.



Dual axis compensator

A fully automatic dual axis compensator performs fine leveling and guarantees perfect horizontal alignment. For applications from mobile platforms the compensator may be deactivated.



Data exchange

All models are equipped with a RS232 serial interface. Stored data can be exchanged between the instrument and a computer. Individually configurable data filters permit data output to be set to your personal preferences.



Laser plummet

Easy to center over a set up point thanks to the laser plummet. The intensity of the laser point can be adjusted step-by-step to maintain visibility even in critical lighting conditions. The time consuming task of centering with the optical level is now redundant.



Picture: Project Uptown Munich Proprietor: Hines Immobilien GmbH

TPS400 Series Leader in Quality and Innovation

Features	Technical Data	TC/TCR 403	TC/TCR 405	TC/TCR 407	
 Unique display Reflectorless measuring Endless fine drive Laser plummet Dual axis compensator Applications Reference line Stake outs Free Station Height transfers Area calculations Tie distance Height of inaccessible points 	Telescope Magnification Field of view Min. target distance Reticle		30 x 1°30' (26m at 1km) 1.7m illuminated		
	Angle measurements Method Display resolution Standard deviation (DIN 18723, ISO 1285 Compensator System Working range Setting accuracy	7) 3" (1 mgon) Elec 1"	Absolute, continuous 1" / 0.5 mgon / 0.01 mil 5" (1.5 mgon) ctronic 2 axis oil compens +/-4' (0.7 gon) 1.5"	7" (2 mgon) ator 2"	
	Distance measurement to prism (TC/T Measuring range with circular prism G Measuring with reflective foil (60 mm s Accuracy (fine/quick/tracking) Time for a measurement (fine/quick/tracking)	(CR) iPR1 3500 m (1 p x 60 mm) 2 mm + 2 p _i icking)	Laser class 1/l rism) / 5400 m (3 prisms) 250 m pm / 5 mm + 2 ppm / 5 r < 1 s / < 0.5 s / < 0.3 s	/ 7000 m (long range) nm + 2 ppm	
	Distance measurement without reflect Measuring range with target plate (Kod Accuracy (short/tracking) Time for a measurement (short/tracking)	out reflector (TCR) Laser class 2/ll a plate (Kodak GRAY) 80 m 3 mm + 2 ppm / 5 mm + 2 ppm ort/tracking) (3s + 1s/10 m) / (1s + 0.3 s/10 m)			
EGL: LED class 1 in accordance with IEC 60825-1 and EN 60825-1 Distancer (infrared): Laser class 1 in accordance with IEC 60825-1 and EN 60825-1 Laser class I in accordance with FDA 21 CFR Ch. I § 1040	Communication Internal data storage Interface Data formats	GSI / IDEX	10'000 Data blocks RS232 GSI / IDEX / ASCII / Freely definable formats		
	Operation Display Keyboard	Alpha 4 functi	Alpha numeric, 6 lines x 31 characters 4 function keys; 2nd keyboard possible		
	Type Accuracy	Laser poi 1.5 mm (2	Laser point, brightness adjustable in steps 1.5 mm (2 sigma) @ 1.5 m instrument height		
Distancer (visible laser) and laser plummet: Laser class 2 in accordance with IEC 60825-1 and EN 60825-1 Laser class II in accordance with FDA 21 CFR Ch. I § 1040 CALSER RADIATION – DO NOT STARE INTO BEAM 620-690nm/0.95mW max. CLASS II LASER PRODUCT	Environmental conditions Temperature range (operation) Splash and dust proof (IEC529) Temperature range (storage)		-20 °C to +50 °C IP54 -40 °C to +70 °C		
	Dimensions and weights Length x width x height Weigth (Instrument / Battery / Tripod)	15	151 mm x 203 mm x 316 mm 4.2kg / 0.2kg / 0.6ka		
	Power supply Battery type Voltage/capacity External feed Operating period with GEB121 Number of distance measurements with	N 6V/1800 mA th GEB121	iMH / standard camcord h; GEB 111 / 6V/3600 m/ via interface (11.514V) approx. 6 hours approx. 9000	er Ah; GEB 121	

Your dealer:



Total Quality Management -Our commitment to total customer satisfaction

Ask your local Leica Geosystems agent for more information about our TQM program.



Leica Geosystems AG CH-9435 Heerbrugg (Switzerland) Phone +41 71 727 31 31 Fax +41 71 727 46 73 www.leica-geosystems.com

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