LEICA TPS400 Series, an overview of the models

Features

Graphical display

Reflectorless measuring

- · Endless fine drive
- · Laser plummet
- · Dual axis compensator

Applications

- Surveying
- Reference line
- Stake Out
- Free Station
- · Height transfers
- Area calculations
- Tie distance
- Remote height
- Construction

Distance meter

(RL, TCR400power): Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1 Laser class Illa in accordance with FDA 21CFR Ch. I § 1040

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LA	SER RADIATION - AVOID DIRECT EYE EXPOSURE
*	620-690nm/4.75mW max. ASS IIIa LASER PRODUCT

Distance meter (RL, standard range) and laser plummet: Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1 Laser class II in accordance with FDA 21CFR Ch. I § 1040



Distance meter (IR): Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1 Laser class I in accordance with FDA 21CFR Ch. I § 1040

EGL quide light:

LED class 1 in accordance with IEC 60825-1 resp. EN 60825-1

TPS800 complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.

Your dealer:

Fechnical Data	TPS 403	TPS 405	TPS 407	TPS 8
Angle measurements (Hz, V)				
Method	Absolute continuous			
Display resolution	1" / 0.1 mgon / 0.01 mil			
Standard deviation (ISO 17123-3)	3" (1 mgon)	5" (1.5 mgon)	7" (2 mgon)	2" 3"
Felescope				
Magnification	30 x (42x with FOK53 eyepiece)			
Field of view	1°30' (26 m at 1 km)			
Min. target distance	1.7 m			
Reticle	illuminated			
Compensator				
System	Electronic 2 axis oil compensator			
Working range	+/-4' (0.07 gon)			
Setting accuracy	1"	1.5″	2"	0.5" 1"
Distance measurement (IR)				
Measuring range with circular prism GPR1		3 5	00 m	
Measuring with reflective foil (60 mm x 60 mm)	250 m			
Standard deviation (ISO 17123-4) (fine/quick/tracking)	2 mm + 2 ppm / 5 mm + 2 ppm / 5 mm -		+ 2 ppm / 5 mm +	2 ppm
Time for a measurement (fine/quick/tracking)		< 1 sec / < 0.5 sec / < 0.3 sec		
Reflectorless Distance measurement (RL)				
Measuring range with target plate (Kodak Gray Card)	80 m (TCR400) / 170 m (TCR400power)		170	
Measuring range with circular prism GPR1	5 000 m (TCR400) / 10 000			10 000
Standard deviation (ISO 17123-4) (short/prism/tracking)	3 mm + 2 ppm / 5 mm + 2 ppm / 5 mm +			
Time for a measurement type (short/prism/tracking)	3.0 sec / 2.5 sec / 1.0 sec			
Communication				
nternal data storage		10 000 d	lata blocks	
nterface	RS232 up to 19 200 baud			
Data formats	GSI / IDEX / ASCII / Freely definable for		rmats	
Operation				
Display	Graphics 160 x 280 pixels, Alphanumeric 8 lines		x 31 chara	
Keyboard (with optional second keyboard)	4 function keys			Alphanu
				4 functio
Laser plummet				
Type	Laser point, brightness adjustable in		teps	
Accuracy	1.5 mm at 1.5 m instrument height			
Environmental conditions				
Temperature range (operation)		-20°C to +50°C	(-4°E to +122°E)	
Splash and dust proof (IEC 60529)	-20°C to +50°C (-4°F to +122°F) IP54			
Temperature range (storage)	-40°C to		to +70°C (-40°F to + 158°F)	
Humidity	95%, non condensing			
· · · · · · · · · · · · · · · · · · ·		00,0,101	condeneing	
Weight Weight including battery and tribrach		E 2 kg		5.4 k
		5.2 kg		5.41
Power supply				
Battery type	NiMH camcorder type			
Voltage / capacity	GEB 111: 6V 2100 mAh / GEB121: 6V 4200			
External feed	with	n GEV71 interface	cable for 11.5V to	14V
Operating period with GEB121			. 6 hours	



Total Quality Management – Our commitment to total customer satisfaction.

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



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