



RTS100 Series Total Station



- Brand new design with trigger key added
- Reflectorless measuring distance:600m(R600)/1000m(R1000)
- Bluetooth cable-free connection(standard)
- 120000 points and 40 jobs can be saved
- Alphanumeric keyboard
- IP55 environmental protection
- Can be operated with a data collector, FOIF FieldGenius or other third party software is available



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■ Technical data

RTS102		RTS102	
Telescope		Level vial sensitivity	
Image	Erect	Plate level vial	30"/2mm
Objective aperture	φ45mm	Circular level vial	8'/2mm
Magnification	30×	Laser plummet(Standard) *4	
Field of view	1° 30'	Accuracy	±1mm/1.5m
Shortest focus distance	1.0m	Laser class	Class 2/IEC60825-1
Angle measurement		Laser spot brightness	Adjustable
Reading system	Absolute encoder	Laser wave length	635nm
Angle unit	360°/400gon/6400mil, selectable	Power	
Display resolution	1"/5"/10"(or 0.3mgon/1.5mgon/3mgon)	Battery	3400mAh Li-ion Rechargeable
Accuracy *1	2"	Output voltage	7.4V DC
Distance measurement		Continuous operation time	Approx. 24 hours(At +20°C)
Laser class(IEC60825-1)		(single distance measurement every 30 seconds)	
Reflectorless	Class 3A(3R)	Charger	FDJ6-LI
Reflective sheet/RP60	Class 3A(3R)	Charging time(at +20°C)	Approx.4 hours
Prism	Class 1	Application programs	
Measurement range		Data collection/Stake out/Resection/REM/MLM/Road	
Reflectorless *2		AREA/Point to line/Z coordinate/OFFset/Arc staking out	
R600/R1000	2.0 to 600m/2.0 to 1000m	Others	
Single prism(standard mode/long mode) *3	2.0 to 3000m/2.0 to 5000m	Display	LCD, 6lines X20characters(96 X160 dots)
Accuracy		CPU	32Bit
Prism in standard mode	2mm+2ppm	Memory	120000 points, support SD card(max.16G)
Reflective sheet/RP60	3mm+2ppm	Keyboard	Alphanumerical key board, both sides
Reflectorless		Weight(including batteries)	5.1kg
R600	2.0-150m:3mm+2ppm ;150-300m:5mm+3ppm	Dimensions(WxDxH)	175x178x340mm
	300-500m:10mm+5ppm	Operating temperature	-20°C to +50°C
R1000	2.0-150m:3mm+2ppm;150-300m:5mm+3ppm	Storage temperature	-40°C to +70°C
	300-500m:10mm+5ppm;500-800m:20mm+10ppm	Interface	miniUSB/RS-232C/Bluetooth
Measuring time(prism)		Water and dust protection	IP55(IEC60529)
Tracking/Fast/Fine	0.4 sec/0.6 sec/1.0 sec	Data transfer software	FOIF Geomatics Office(FGO)
Display resolution(m/inch selectable)	0.2mm/1mm	■ Related products  RTS010 OTS680 RTS350 DT400/LP400	
Temperature input range	-40°C to +60°C(1°C step)		
Pressure input range	500hPa to 1500hPa(1hPa step)		
Prism constant correction	-99.9mm to +99.9mm		
Compensator	Dual-axis		
Range	±3'		
Setting accuracy	1"		

*1 Standard deviation based on ISO17123-3 *2 condition: 20km visibility, backlight illuminance less than 5000lx, no fog and direct sunlight. Reflectorless target: KODAK CAT NO.E1527795, 90% reflectivity, A4 size *3 condition: 40km visibility, clear, no heat shimmer *4 Laser plummet mounted on the bottom of the vertical axis

Illustrations, descriptions and technical specifications are not binding and may change

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Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904

FAX:+86 512 65230619

Http://www.foif.com

E-mail:internationalsales@foif.com.cn

ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China



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