



RTS100/RTS100R Series Total Station



- Measuring distance: 300m(RTS100R3)/500m(RTS100R5)
- RTS100R3 EDM can be upgraded to RTS100R5 EDM (Factory Optional)
- Bluetooth[®] cable-free connection (Factory Optional)
- 120000 points and 40 jobs can be saved
- Can be operated with a data collector, FOIF FieldGenius, or other third party software is available
- IP66 environmental protection
- Alphanumeric keyboard



RTS100/RTS100R can connect to data collector through Bluetooth or RS-232C



RTS100/RTS100R Series Total Station

RTS100/RTS100R 2014.06

	RTS100R	RTS100		RTS100R	RTS100
Telescope			Compensator		
Length			Dual-axis		
156mm			Range		
Erect			±3′		
Image			Setting accuracy		
φ 45mm			1″		
Objective aperture			Level vial sensitivity		
30×			Plate level vial		
1° 30′			30″ /2mm		
1.0m			Circular level vial		
			8′ /2mm		
Angle measurement			Laser plummet(Standard) *4		
Reading system			Accuracy		
Absolute encoder			±1mm/1.5m		
Angle unit			Laser class		
360° /400gon/6400mil, selectable			Class 2/IEC60825-1		
Display resolution			Laser spot brightness		
1″ /5″ /10″ (or 0.2mgon/1mgon/2mgon)			Adjustable		
Accuracy *1			Laser wave length		
RTS102/RTS102R3/RTS102R5			635nm		
RTS105/RTS105R3/RTS105R5			Optical plummet(Factory Optional)		
			Accuracy		
Distance measurement			±0.8mm/1.5m		
			Image		
Laser class(IEC60825-1)			Erect		
			Magnification /Field of view		
Reflectorless			3 ×/4°		
Class 3R			Focus range		
			0.5m to ∞		
Reflective sheet/RP60			Power		
Class 3R					
Prism			Battery		
Class 1			3400mAh Li-ion Rechargeable		
Measurement range (Good condition) *2			Output voltage		
			7.4V DC		
Reflectorless*3			Continuous operation time		
R3			Approx. 26 hours(At +20℃)		
1 to 300m			(Single distance measurement every 30 seconds)		
R5			Charger		
1 to 500m			FDJ6-LI (100V /240V)		
Reflective sheet/RP60			Charging time(at +20℃)		
1 to 800m			Approx.4 hours		
Single prism(Class 1)			Application programs		
1 to 3000m					
Single prism(Class 3R)			Data collection/Stake out/Resection/REM/MLM/Road		
1 to 5000m			AREA/Point to line/Z coordinate/OFFset/Arc staking out		
Three-prism					
1 to 5000m			Others		
Accuracy					
Prism			Display		
2mm+2ppm			LCD, 6lines X20characters(96 X160 dots)		
Reflective sheet/RP60			Language		
3mm+2ppm			English, Spanish, Portuguese, Russia, German, French, Polish, Italian, Turkish...		
Reflectorless					
			CPU		
R3 1-150m:3mm+2ppm			32Bit		
≥150m:5mm+3ppm			Memory		
R5 1-200m:3mm+2ppm			60000 points and 50 codes for internal memory support SD card(max.16G)		
≥200m:5mm+3ppm			Keyboard		
Initial:2s			Alphanumerical key board, both sides		
Initial:2s			Weight(including batteries)		
typ.1.0-1.5s			5.1kg		
typ.1.5s			Dimensions(WxDxH)		
			175x178x340mm		
Reflective sheet/RP60			Operating temperature		
typ.1.5-5s, max. 20s			-20℃ to +50℃		
			Storage temperature		
			-40℃ to +70℃		
Display resolution(m/inch selectable)			Interface		
0.2mm/1mm			USB/RS-232C/Bluetooth(Factory Optional)		
Temperature input range			Water and dust protection		
-40℃ to +60℃(1℃ steps)			IP66(IEC60529)		
Pressure input range			Data transfer software		
500hPa to 1500hPa(1hPa steps)			FOIF Geomatics Office(FGO)		
Prism constant correction			Data collector		
-99.9mm to +99.9mm			F52G or PS236, fully rugged PDA(Optional)		

*1 Standard deviation based on ISO17123-3

*2 Good conditions: no haze, visibility about 40km, no heat shimmer, breeze

*3 Reflector: White side of Kodak Gray Card with 90% reflective

*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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