



TU EQUIPO SAS
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RTS010/RTM010 High Precision Total Station



- Angle measurement accuracy: 1" , distance measurement accuracy: 1mm+1ppm
- 1000m long range reflectorless distance measurement
- Ultra-narrow EDM laser beam, can precisely measure high voltage wire, walls, corners, manholes on the road surface, even chain-link fences and tree branches
- High accuracy surveying can be achieved in an easy, fast and reliable way
- Applied for high precision surveying area, such as high-speed railway construction, structural monitoring and large-scale 3D measurement
- Multiple data interface, USB host, USB slave or RS-232C data transfer are available
- Compact design with Windows CE 5.0 operating system



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RTS010 2013.08

Technical data

RTS010		RTM010		RTS010		RTM010	
Telescope				Compensator			
Length/Image		156mm/Erect		Dual axis compensator			
Objective aperture		φ45mm		Working range		±3'	
Magnification/Resolving Power		30×/3"		Setting accuracy		1"	
Field of view		1° 30'		Laser plummet(Standard)*4			
Shortest focus distance		1.0m		Accuracy		±1.0mm/1.5m	
Angle measurement				Laser class		Class 2/IEC60825-1	
Reading system		Absolute encoder		Laser brightness		Adjustable	
Angle unit		360° /400gon/6400mil, selectable		Laser wave length		635nm	
Display resolution		0.1" /0.5" /1" (or 0.02/0.1mgon/0.2mgon)		Optical plummet(Factory optional)			
Accuracy*1		1"		Accuracy		±0.8mm/1.5m	
Distance measurement(R1000)				Image		Erect	
Laser class				Magnification		3×	
Prism standard mode		Class 1		Field of view		4°	
Prism long mode		Class 2		Focus range		0.5m to ∞	
Reflective sheet		Class 2		Display 3.5" colour TFT LCD (320 x 240 dots) touch screen			
Reflectorless standard mode		Class 2		transflective sunlight readable display			
Reflectorless long mode		Class 3R		Power			
Measurement range (Good condition)*2				Battery		3400mAh Li-ion Rechargeable	
Standard mode/Prism		1 to 3500m		Output voltage		7.4V DC	
Long mode /Prism		1 to 6000m		Continuous operation time			
Reflective sheet/RP60		1 to 1200m	1 to 2000m	8 hrs in distance & 20 hrs in angle measurement mode*5			
Reflectorless*3		1 to 1000m		Charger		FDJ6-Li(110V/240V)	
Accuracy				Charging time(at +20℃)			
Prism standard mode		1mm+1ppm		Approx. 4 hours			
Prism long mode		2mm+2.5ppm		Application programs			
Reflective sheet/RP60		2mm+2ppm	1mm+1ppm	Data collection/Stake out/Resection/REM/MLM/Point to line			
Reflectorless		1-500m:2mm+2ppm		AREA/Z coordinate/OFFset/3D Road/Traverse adjustment			
		>500m:4mm+2ppm		Tape measurement/section/axis positioning measurement			
Typital measuring time(max.20s)				Others			
Prism standard mode		1.0s~5.0s		CPU		ARM9 Core	
Prism long mode		0.7s~6s		Memory		2G internal memory	
Reflective sheet/RP60		1s~5s		Sensors			
Reflectorless		1-500m:0.7s~6s		Built-in temperature and pressure sensors			
		>500m:3s~12s		Keyboard		Alphanumerical illuminated key board, both sides	
Display resolution(m/inch selectable)		0.1mm/1mm		Guide Light System		Factory optional	
Temperature input range		-40℃ to+60℃(1℃ steps)		Weight(including batteries)		6.5kg	
Pressure input range		500hPa to 1500hPa(1hPa steps)		Dimensions(WxDxH)		180x220x360mm	
Prism constant correction		-99.9mm to +99.9mm		Operating temperature		-20℃ to+50℃	
Level vial sensitivity				Storage temperature		-40℃ to +70℃	
Plate level vial		30" /2mm		Interface		USB host/USB slave/RS-232C/Bluetooth(Optional)	
Circular level vial		8' /2mm		Water and dust protection		IP55(IEC60529)	
				Data transfer&processing software		FOIF Geomatics Office	
				Data collector		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

*5 Single distance measurement every 30 seconds

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

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It's professional

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