

Product Name :
Total Station

Product Code :
TEST5194RFQLAB-0003



Description :

Total Station

Technical Specification :

Total station
 Angle Measurement
 Hz, V:0.15 mgon to 0.3 mgon (accuracy)
 Display resolution: 0.01 mgon to 0.1 mgon (accuracy)
 Method:absolute, continuous, diametrical (accuracy)
 Compensator
 Working Range: 0.07 gon
 Setting accuracy: 0.10 mgon
 Method: electronic dual axis compensator
 Distance Measurement
 Ranger (average atmospheric conditions)
 Round prism: 2500 m
 3600C reflector 1300 m
 Mini prism 900 m
 Reflective tape 200 m
 Accuracy /measurement time/((standard deviation)
 Standard Mode:1 mm + (1 to 2 ppm)/ 3.0s
 Fast Mode:3 mm + 2 ppm / 1.5 s
 Display Resolution: 0.01 – 0.1 mm

Method:Phase Measurement (coaxial, Invisible, invisible infrared laser)
Guide light
Range(average atmospheric conditions) : working range:5 – 150m
Accuracy positioning accuracy: 5 cm at 100 m
Motorized
Speed Rotating speed:450C/s
Automatic target recognition (ATR)
Range ATR mode/LOCK mode
Round Prism:100m / 500 m
3600 reflector:500 m / 350 m
Shortest measurable distance:1.5 m
Accuracy/measurement time
Up to 200 m: 1 mm,
> 200 m: as per angle measuring accuracy + 1 mm/3 – 4 s
Tangential (standard mode): 5 m/s at 100 m, 1 m/s at 20 m
Tangential (with EDM tracking mode): 1 m/s at 100 m, 0.2 m/s at 20 m
Method:Digital Image processing (laser beam)
Telescope
Magnification:30 x
Free objective aperture:42 mm
Field of View:1033' (1.72 gon) / 2.7 m at 100 m
Focusing Range:1.7 m to infinity
Keyboard and Display
Display:64*210 pixels, graphic LCD, with Illumination
Keyboard:32 keys (6 function keys, 12 alphanumeric keys, 6 direct keys)
Angle display: 3600' ", 3600 decimal, 40 gon, 6400 mil
Distance display:meter
Position:keyboard in position I and II (standard)
Data Storage
Internal memory: S-RAM card (512 KB and 2 MB)
Number of data records: ~ 4000 per MB
Interface: RS232
Circular Bubble:
Sensitivity: 4' / 2 mm
Laser plummet:
Centring accuracy:1.00 mm at 1 m
Laser dot diameter: 2.5 mm at 1.5 m
Endless drives:
Endless drives: Number of drives:
2 horiz. / 1 vert.
1 horiz. / 1 vert
Battery
Type: Rechargeable
Voltage: 12 V
Capacity: 1.8 Ah
Operating time:72 hrs
Weight
Instrument: 7.5 kg
Battery: 0.3 kg
Tribrach: 0.9 kg
Working environment
Working temperature: -200C to +500 C
Storage Temperature: -400C to +700C

Dust / water (IEC 60529): IP54

Humidity: 95%, non-condensing

Accessories: cables and flash(32GB) for transferring Data's to computer.



Testing lab instruments India