

DS03

Precision Level



- Built-in parallel-plate micrometer
- High precise reading, 0.1mm is read directly, 0.01mm can be displayed on the screen
- Standard deviation of 1km double run: $\leq \pm$ 0.3mm
- Water and dust protection: IP55
- Wide working temperature from -30°C to +50°C

DS03 2011.05

DS03 Precision Level

Applications

Designed for the highest accuracy in geodesy, engineering and industry. Model DS03 Automatic Level is adoptable for the first and second geodetic leveling of national networks; It can be used for engineering and deformation surveys, such as height control for engineering projects, deformation and subsidence measurements, checking bridges and structures, monitoring movements, etc. It is also used for general construction engineering and installation of large size machines.

Reading



Compensator

We know that compensator is made up of metal material and glass material, the temperature can affect these materials results in slight changes of compensator, then causes change of langle. The instrument without temperature offset is always not to reach the standard of nation (GB/T10156-1997), In the diagram, the green area where between the red lines is a acceptable area when the compensator is changed along with the temperature's change (Company standard: $\pm 0.5''$ /°C). The red thick line A is a change curve for angle I of level without temperature offset. Our DS03 levels add a device of temperature offset, it can correct the change value of angle I when changing the temperature. The green thick line Bis a change curve for angle lafter offset, the instrument can be good work in the malconditions of large temperature change, especially apply to transformation observation at a long time.



Theory diagram for temperature offset of compensator

Technical data

	DS03	
Telescope		
Image	Erect	
Clear objective aperture	50mm	
Magnification	42 ×	
Field of view at 100m	2.3m	
Shortest focus distance	1.6m	
Multipication factor	100	
Additive constant	0	
Accuracy		
Standard deviation of 1km double rur	n ±0.3mm*	
Automatic compensator		
Working range	15′	
Setting accuracy	±0.2″	
Setting time	≤2s	
Others		
Sensitivity of circular level per 2mm r	un 5′/2mm	
Operating Temp	-30°C~+50°C	
Net Weight	2.5kg	
Water and dust proof	IP55 (IEC60529)	
Parallel plate micrometer		
Range	10mm	
Interval	0.1mm	
Reading	0.01mm	
Power		
Battery 1900mAh	Li-ion Rechargeable	
Continuous operation time	>10 hours	
Charging time	3 hours	
Depending on statt and levelling technique.		

Related products	
DS05 DSZ2+F	S1 YGL140F SI-2105

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



Suzhou FOIF Co.,Ltd.

TEL:+86 512 65224904 FAX:+86 512 65230619 Http://www.foif.com.cn E-mail:internationalsales@foif.com.cn ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China



Local Dealer:	
LUCAI Dealer.	