FOIF

DSZ2
DSZ3
AUTOMATIC LEVEL

Adopt outstanding temperature offset technique

— Be competent at work conditions of wide temperature





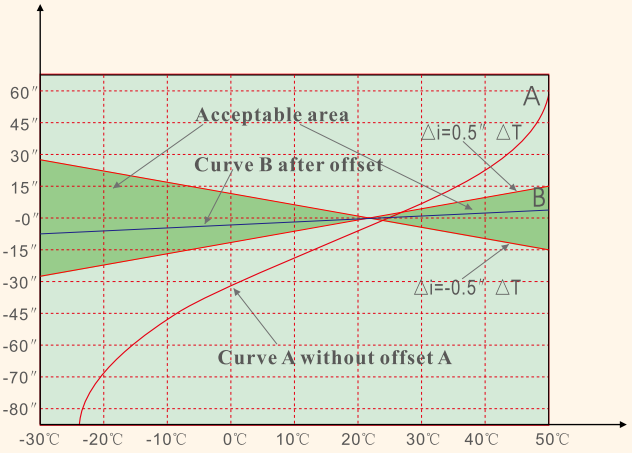
DSZ2/DSZ3 AUTOMATIC LEVEL

Application:

DSZ2, DSZ3 are used in 3rd and 4th order leveling and in geodetic control, construction of roads and industrial applications. The DSZ2 with FS1 may be used in 2nd order leveling or in monitoring structural deformation etc. The use of automatic compensator speeds up work and improves accuracy. They can be operated in the temperature from -30℃to +50℃.

Features:

- Equipped with a press button for compensator checking.
- Dismountable eyepiece, assorted accessories, such as: Diagonal Eyepieces.
- Adopt crossing suspender frame and compensator of air damper.



Theory diagram for temperature offset of 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 I angle. 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:±0.5″/℃). The red thick line A is a change curve for angle I of level without temperature offset. Our DSZ2/DSZ3 levels add a device of temperature offset, it can correct the change value of angle I when changing the temperature. The green thick line B is a change curve for angle I after offset, the instrument can be good work in the mal-conditions of larger temperature change, especially apply to transformation observation at a long time.

Specifications:

	DSZ2	DSZ3
Standard deviation of 1KM double run	⩽±1.0mm*	⩽±2.0mm
DSZ2+FS1	⩽±0.5mm*	/
Telescope	erect image	erect image
Clear objective aperture	45mm	36mm
Magnification	32×	24×
Field of view at 100m	2.3m	3.2m
Shortest focussing distance	1.6m	0.7m
Multipication factor	100	100
Additive constant	0	0
Automatic compensator		
Working range	±14′	±14′
Setting accuracy	⩽±0.3″	⩽±0.5″
Setting time	⩽2S	⩽2S
Sensitivity of circular level per 2mm run	8′ /2mm	8′ /2mm
Operating Temp	-30°~+50°	
Net Weight	2.5kg	2.0kg
Parallel Plate Micrometer FS1(Optional accessory)		

Range	Interval	Estimation	Net weight
10mm	0.1mm	0.01mm	1.25kg

* Depending on staff and levelling technique.

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

DSZ2 DSZ3 2024.07

FOIF Since 1958
It's professional

Suzhou FOIF Co.,Ltd.

TEL:+86 512 65234905
FAX:+86 512 65230619
Http://www.foif.com
E-mail: internationalsales@foif.com.cn
ADD: 18 Tong Yuan Road, Suzhou 215006, P.R.China

ISO 9001 REGISTERED
DNV Certification B.V., The Netherlands
MGMT.SYS. RvA C024

Local Dealer: