

**Autobuild24 AUTOMATIC LEVEL**

**Autobuild 32 AUTOMATIC LEVEL**



# AUTOBUILD32/AUTOBUILD24 AUTOMATIC LEVEL

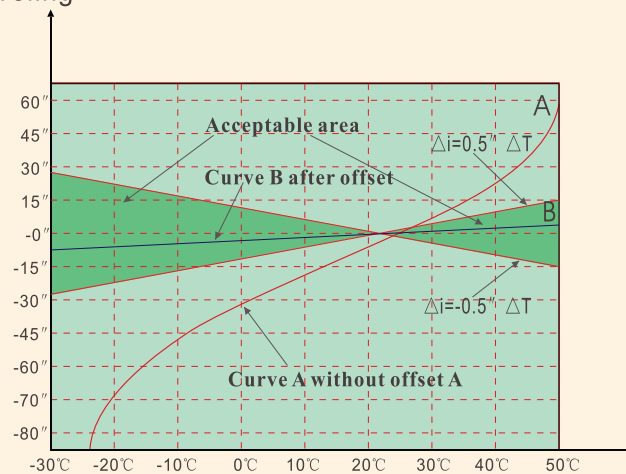
## Application:

Autobuild32/Autobuild24 are used in 3<sup>rd</sup> and 4<sup>th</sup> order leveling and in geodetic control, construction of roads and industrial applications. The Autobuild32 with FS1 may be used in 2<sup>nd</sup> 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°C to +50°C.

## 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.

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:  $\pm 0.5''/^\circ\text{C}$ ). The red thick line A is a change curve for angle  $I$  of level without temperature offset. Our Autobuild32/Autobuild24 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.



Theory diagram for temperature offset of compensator

## Specifications:

	Autobuild32	Autobuild24	
Standard deviation of 1KM double run	$\leq \pm 1.0\text{mm}^*$	$\leq \pm 2.0\text{mm}$	
DSZ2+FS1	$\leq \pm 0.5\text{mm}^*$	/	
Telescope	erect image	erect image	
Clear objective aperture	45mm	36mm	
Magnification	32 $\times$	24 $\times$	
Field of view at 100m	2.3m	3.2m	
Shortest focussing distance	1.6m	0.7m	
Multiplication factor	100	100	
Additive constant	0	0	
<b>Automatic compensator</b>			
Working range	$\pm 14'$	$\pm 14'$	
Setting accuracy	$\leq \pm 0.3''$	$\leq \pm 0.5''$	
Setting time	$\leq 2\text{S}$	$\leq 2\text{S}$	
Sensitivity of circular level per 2mm run	8' / 2mm	8' / 2mm	
Operating Temp	-30 $^\circ$ ~ +50 $^\circ$		
Net Weight	2.5kg	2.0kg	
<b>Parallel Plate Micrometer FS1 (Optional accessory)</b>			
Range	Interval	Estimation	Net weight
10mm	0.1mm	0.01mm	1.25kg

\* Depending on staff and levelling technique.

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