

AUTO LEVEL

AT-G series



The AT-G series contains a

Topcon's newly-
and more compa
waterpro



WATERPROOF SEALED TELESCOPE CONSTRUCTION

The instrument has a completely waterproof telescope and is, therefore, ideal for all kinds of wet-surveying operations, in light rain or in tunnels.

Only test-approved telescopes are used and, furthermore, dry nitrogen gas is sealed in the telescope tube which effectively prevents lens clouding and moisture condensation.

NEW ERGONOMIC DESIGN

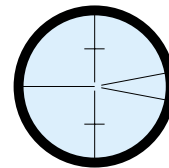
Redesigned for smoother, easier operation all around, Topcon's new G-series levels offer a larger knob for faster, accurate adjustments and new materials for lighter weight when you're on the move.

ANGULAR READING TO 10 MINUTES [AT-G1]

Model AT-G1 has a glass horizontal circle which is graduated in 10 minute divisions (10c divisions) and numbered every degree (one grade), with calibrations from 0° to 360° (0g to 400g). Furthermore, readings are possible through a 25x reading microscope, with only a slight shift of the eye, from the telescope eyepiece. And, the horizontal circle freely rotates for zero alignment.



**PRECISION-BUILT FOR
AND PE**



[G1/G2/G2A]



AT-G1



AT-G2A

2 SPEED FOCUSING [AT-G1/G2A]

Fine and coarse focusing is provided by a coaxial focusing knob, which permits rapid setting and accurate focusing for perfect image at the same time.

level product that meets all po

redesigned engineering and construction automatic level
fact than ever. They are lightweight for easy transport a
of telescope is effective for all kinds of wet surveying o

**EXCELLENT LEVELING ACCURACY
PERFORMANCE EVERY TIME FOR ENGINEERING**



AT-G2



AT-G4



AT-G3



AT-G6



SHORT FOCUS CONSTRUCTION LEVELS BUILT

CLAMPLESS FINE HORIZONTAL ADJUSTMENTS

Fine horizontal adjustments are possible at any point through 360° (400g) of the arc, without clamping action, which means that target alignments are greatly speeded up.

Furthermore, fine horizontal knobs are available on both sides, for very easy and speedy adjustments.

FAST INSTRUMENT SET-UP

Very fast instrument set-up is possible because the base plate can be used for fixing on top of dome head tripods, such as the TOPCON Dome Head Aluminum Tripod.



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operations.



[G3~G7]

AT-G7

T TOUGH TO LAST

VERY SHORT 0.5 METER FOCUSING [AT-G3/G4/G6]

AT-G3/G4/G6 has a short range setting position of 0.5 meter which is suitable for close range work carried out by builders and contractors.

EASY-TO-SEE CIRCULAR LEVEL OBSERVATION

The circular level is checked very easily with a slight shift of the eye, with a clear, distinct view observed via reflecting pentagonal mirror (AT-G1/G2/G3), pentagonal prism (AT-G2A), hinged mirror (AT-G4/G6) or fixed mirror (AT-G7).



AT-G1



AT-G2A



AT-G4

ANGULAR READING [AT-G2~G7]

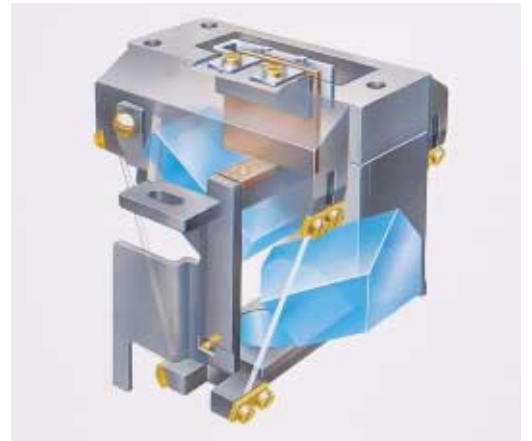
The horizontal circle is graduated from 0° to 360° (0g to 400g) clockwise in 1° (1g) divisions and the value is indicated for each 10° (10g).



RAPID, STABLE AUTOMATIC LEVELING

A time-proven magnetically-damped compensator is incorporated for automatic leveling action. It is not affected by fine vibrations and has been proven to have very stable precision, thus speeding up automatic leveling operations and producing accurate results.

The TOPCON-exclusive automatic leveling system utilizes four special mylar ribbons for hanging the magnetic damper compensator, which is, therefore, not influenced by the magnetic field, as well as having superior resistance to cold, heat and shock.



RUBBER EYEPIECE CAP

Sighting through Topcon G-series levels include AT-G7 is safe for anyone who wears eyeglasses.

With their protective rubber eyepiece caps, scratches and abrasions are reduced or eliminated completely.





OPTIONAL ACCESSORIES

DIAGONAL EYEPIECE

Setting the diagonal eyepiece in place of the standard telescope eyepiece provides for collimating with easy posture.

[AT-G1/G2/G2A/G3]



40X EYEPIECE

Increases magnification of the telescope of AT-G series engineering auto levels from 32X to 40X for even more precise leveling.

[AT-G1/G2/G2A]



OPTICAL MICROMETER

Get greater accuracy from AT-G series engineering auto levels. In one kilometer of double run levelling, accuracy is improved to $\pm 0.4\text{mm}$ (0.001 ft.).

Attaches to front of objective lens with a counter-weight attached to the eyepiece. [AT-G1/G2/G2A/G3]



ILLUMINATOR-5

Provides light to the telescope reticle when available light is insufficient, for example, in tunnels or at night.

[AT-G1/G2/G2A/G3]



CENTERING PLATFORM

When used on top of tripod provides quick and simple centering on reference points. Parallel shifts of 100mm vertically and 30mm laterally.



SPECIFICATIONS

ITEM \ MODEL	AT-G1	AT-G2/G2A	AT-G3	AT-G4	AT-G6	AT-G7
Telescope						
Length (mm/in.)	229/9	229/9	230/9	192/7.7	193/7.7	204/8
Image	Erect	Erect	Erect	Erect	Erect	Erect
Magnification	32×	32×	30×	26×	24×	22×
Objective lens (mm/in.)	45/1.8	45/1.8	40/1.6	30/1.2	30/1.2	30/1.2
Relative brightness	1.98	1.98	1.78	1.33	1.56	1.86
Field of view	1°20'	1°20'	1°30'	1°30'	1°30'	1°30'
Resolving power	2.5"	2.5"	3.0"	3.5"	4.0"	4.0"
Minimum focus (m/ft.)	1.0/3.2	1.0/3.2	0.5/1.6	0.5/1.6	0.5/1.6	0.9/2.9
Stadia constant (m)	0	0	0	0	0	0.1
Stadia ratio	100	100	100	100	100	100
Circular Level						
Sensitivity (/2mm)	8'	8'	8'	8'	8'	10'
Automatic Leveling						
Setting accuracy	±0.3"	±0.3"	±0.3"	±0.3"	±0.3"	±0.5"
Compensating range	±15'	±15'	±15'	±15'	±15'	±10'
Accuracy at 30m/100ft						
w/o optical micrometer (mm/in.)	—	—	—	±2.0/±0.08	±2.0/±0.08	±2.5/±0.1
Accuracy 1km Double Run Level						
w/o optical micrometer (mm/in.)	±0.7/±0.03	±0.7/±0.03	±1.5/±0.06	±2.0/±0.08	±2.0/±0.08	±2.5/±0.1
with optical micrometer (mm/in.)	±0.4/±0.02	±0.4/±0.02	±1.0/±0.04	—	—	—
Horizontal Circle						
Dimiameter (mm/in.)	90/3.5	117/4.7	117/4.7	117/4.7	117/4.7	102/4.0
Minimum division	10'(0.1g)	1°(1g)	1°(1g)	1°(1g)	1°(1g)	1°(1g)
Weight						
Instrument (kgs./lbs.)	2.1/4.6	1.8/4.1	1.8/4.1	1.6/3.5	1.6/3.5	1.2/2.6
Plastic carrying case (kgs./lbs.)	1.3/2.9	1.3/2.9	1.3/2.9	1.3/2.9	1.3/2.9	1.2/2.6

• Designs and specifications herein are subject to change without notice.

Important In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



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