

STT402L Theodolite

Electronic Theodolite
for high-precision
works



TECHNICAL FEATURES

Stonex 2" Electronic high accuracy Theodolite

STT402L offers the opportunity to challenge high-precision monitoring and engineering works. Thanks to its absolute encoder, angle measurements are saved when STT402L is switched off. Low power consumption gives more than 80 hours working time. Unlike other instruments that use only AA battery, STT402L offers the options to use the Li-Ion rechargeable battery or standard AA battery. The dual axis compensator with 1" accuracy ensures reliable measurements on every kind of terrain. In addition, the large ergonomic keypad and the backlit LCD display allows the Surveyor to be extremely productive in the field works. Also the reticle is illuminated permitting to work inside tunnels and buildings. By pressing one key STT402L converts vertical angles to percent of grade, locks the horizontal angle, resets the horizontal angle to zero offering the possibility to reposition or repeat a measurement.

The continuously reading program with average calculations gives a 100% error free reading on both the circles. Stonex STT402L comes with a complete set of accessories including the carrying case, battery and charger, adjusting tools.

Benefits

- Uses both Li-Ion rechargeable and AA battery
- All purpose instrument, suitable for any kind of field work
- Ergonomic keypad and backlit LCD display
- Easy to use, most of the functions with one key
- IP 55 water & dust protection

TELESCOPE

Image	Erect
Magnification	30x
Objective aperture	Φ 45mm
Field of view	1° 30'
Minimum focusing distance	1.0 m
Stadia multiplication constant	100
Stadia addition constant	0

ANGLE MEASURING & COMPENSATION

Reading system	Absolute Encoding
Minimum reading	1" (0.2 Mgon)
Accuracy ¹	2"
Automatic Compensator	Dual Axis
Range	±3'
Accuracy	1"

LEVELS

Plate level accuracy	30"/2mm
Circular level accuracy	8'/2mm

DISPLAY

LCD on both sides	Backlit
Reticle	Illuminated

LASER PLUMMET

Accuracy	±1.0mm / 1.5m
Laser class/wave	Class 2 / IEC60825-1 / 635nm

POWER SUPPLY

Battery	6V Li-Ion / 4 units AA battery
Operating time	80 hrs Li-Ion battery 24 hrs AA battery

PHYSICAL SPECIFICATION

Dimensions	153 mm × 175 mm × 340mm
Weight	4.5 kg
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Waterproof/Dustproof	IP55
Serial interface	RS 232
Optional Accessories	Diagonal eyepiece, battery charger

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

1. Standard deviation based on ISO 17123-3



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