

# Leica TS01

## Data sheet



Leica TS01



### LEICA TS01: THE ENTRY TO LEICA GEOSYSTEMS' TOTAL STATIONS

- **A smart decision:** Leica TS01 represents a business-smart entry into the Leica Geosystems world. You and your surveying crew members will be ready for new projects in no time.
- **Powerful distance measurement:** Enjoy the benefits of a 500 m non-prism range and 3,000 m prism range, always combined with accuracy and measurement speed.
- **Fast setup and measurements:** increase your productivity with built-in sensors like an electronic dual axis compensator, a laser plummet, intuitive field software and short keys for quick menu access.
- **Your all-in-one package:** The TS01 comes with Leica Geosystems accessories, such as a long-operating battery, a charger and a tribrach tested to perform best – when every detail counts.
- **Benefit from Leica Geosystems service and support:** Make use of the well-established Leica Geosystems' service and support network.

Leica TS01 empowers you to carry out measurement tasks with ease and simplicity. The TS01 is an entry-level manual total station, created to help you master surveying, layout and mapping projects. It will prove itself in the field and immediately become a valuable member of your team.

[leica-geosystems.com](http://leica-geosystems.com)



- when it has to be **right**

**Leica**  
Geosystems

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## ANGULAR MEASUREMENT

Accuracy Hz and V	Absolute, continuous	5"
	<ul style="list-style-type: none"> <li>■ Display resolution: 1" (0.1 mgon)</li> <li>■ Dual axis compensation with Hz collimation and V index correction</li> <li>■ Compensator range: +/- 8'</li> <li>■ Longitudinal level sensitivity: 2/2 mm</li> </ul>	✓

## DISTANCE MEASUREMENT

Range <sup>1</sup>	<ul style="list-style-type: none"> <li>■ Prism (GPR1): 3,000 m</li> <li>■ Non-Prism: up to 500 m<sup>2</sup></li> </ul>	✓
Accuracy	<ul style="list-style-type: none"> <li>■ Single prism: 2 mm + 2 ppm</li> <li>■ Non-Prism: 3 mm + 2 ppm<sup>3</sup></li> </ul>	✓
Measurement time	Prism mode	✓
	<ul style="list-style-type: none"> <li>■ Standard: 1.5 s</li> <li>■ Quick: 1.1 s</li> <li>■ Tracking: 0.15 s</li> </ul>	✓
	Non-prism mode	✓
	<ul style="list-style-type: none"> <li>■ Standard: 1.4 s</li> <li>■ Quick: 1.1 s</li> </ul>	✓
	Display resolution: 0.1 mm	✓
Laser dot size	<ul style="list-style-type: none"> <li>■ At 50 m: 12 mm × 24 mm</li> <li>■ Magnification: 28x</li> <li>■ Focusing range: 1.5 m / 4.92 ft to infinity</li> </ul>	✓
Telescope	<ul style="list-style-type: none"> <li>■ Field of view: 1°30' / 1.66 gon</li> <li>■ Field width at 100 m: 2.8 m</li> <li>■ Adjustable reticule illumination</li> </ul>	✓

## GENERAL

Display and keyboard		240×128 px, grayscale, 28 keys display background light, face 1
Operation	<ul style="list-style-type: none"> <li>■ Coarse and fine drive for HZ &amp; V</li> <li>■ operating system: Free RT/OS</li> <li>■ Shortcut keys</li> </ul>	✓
Power management	<ul style="list-style-type: none"> <li>■ Exchangeable Lithium-Ion battery</li> <li>■ Operating time with GEB264</li> </ul>	up to 24 h
Data storage	<ul style="list-style-type: none"> <li>■ Internal memory: 50,000 points</li> <li>■ USB memory device for data transfer</li> </ul>	✓
Interfaces	USB	✓
Laser plummet (Laserclass 2)	<ul style="list-style-type: none"> <li>■ Accuracy</li> <li>■ Plumb line deviation: 1.5 mm at 1.5 m instrument height</li> <li>■ Diameter of laser point: 2.5 mm at 1.5 m instrument height</li> </ul>	✓
Weight	With battery and tribrach	5.9 kg
Environmental specifications	<ul style="list-style-type: none"> <li>■ Working temperature range: -20°C to +60°C</li> <li>■ Dust / Water (IEC 60529) / IP55</li> <li>■ Storage temperature range: -30°C to +60°C</li> </ul>	✓

### Legend:

1. Overcast, no haze, visibility about 40 km, no heat shimmer
2. Object in shade, sky overcast, Kodak Gray Card white side (90% reflective)
3. Up to 200 m. Above 200 m: 5 mm + 3 ppm

✓ = Included



Laser radiation, avoid direct eye exposure.  
Class 3R laser product in accordance with IEC 60825-1:2014.

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