Trimble C3

MECHANICAL TOTAL STATION

TOUGH, FAST, ACCURATE WHEREVER WORK TAKES YOU.

The Trimble® C3 mechanical total station delivers the range of features you expect and the accuracy/speed you need, whatever the project or terrain.

This durable, user-friendly addition to the industry's top portfolio reduces worker fatigue even as it handles the toughest worksite conditions. For surveyors across the globe, it not only boosts productivity and saves time, but it also makes fieldwork easier.

Rely on the Trimble C3 to deliver precise measurements while virtually eliminating downtime, allowing you to finish each job quickly and efficiently.

High Performance in an Easy-to-Use Package.

With the Trimble C3, you can move quickly, stay productive, and work as long as you need to work.

The Trimble C3 is built to deliver exceptional results, whatever the worksite conditions. It's lightweight and compact, simplifying storage, transport, and handling. Setup is easy, too—just as you'd expect from a Trimble total station. Onboard data collection software ensures smooth, efficient workflows.

You can also count on the Trimble C3 to deliver exceptional results for years to come. Its superior design and durability ensure reliability, project after project. And PIN code security means it's always well-protected.

Trimble Reliability. Nikon Optics. Superior Results.

With its autofocus and superior Nikon® optics, the Trimble C3 makes every day in the field productive. It focuses precisely and delivers crisp, bright sightings even in low light conditions. The results are always accurate and true—which ensures greater productivity back in the office, too. With the Trimble C3, there's no need to return to the field, because you get it right the first time.

The Features You Need for the Job You Do.

The Trimble C3 is designed to make your job easier. That's why the batteries have enough power to last all day. And they're hot-swappable. You have the option of charging one battery while you're working with the other one.

The new Trimble C3 offers 1", 2", 3" and 5" accuracy models. With intuitive, fully-featured onboard software it's always ready to deliver the high level of efficiency and productivity—the improved workflows—you expect from Trimble.

Phone App for Easy Data Transfer.

The Total Station File Transfer app and Bluetooth® connection let you easily transfer data between the field and office, so your data makes it to the office before you do. Install the phone app now to make data transfer easy.

Scan or click the QR codes below to download the Total Station File Transfer app.









Key Features

- Autofocus powered by Nikon
- ► Fast measuring speed

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- ► Powerful long range EDM
- Compact, lightweight and rugged system design
- Dual face displays
- Intuitive onboard software





Trimble C3 MECHANICAL TOTAL STATION

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DISTANCE MEASUREMENT

Range with specified	prisms
Good conditions ¹	

out the following series of the state of the

Reflectorless mode

	Good ¹	Normal ²	Difficult ³
KGC (18%)	400 m (1,312 ft)	300 m (984 ft)	235 m (771 ft)
KGC (90%)	800 m (2,625 ft)	500 m (1,640 ft)	250 m (820 ft)

Accuracy in precise measurement mode^{7,8}

Prism ⁴	
Reflectorless	. ±(3+2 ppm x D) mm

Measuring time⁵

	Precise mode	Normal mode	Fast mode
Prism mode	0.9 s (initial 1.4 s)	0.5 s (initial 1.2 s)	0.3 s (initial 0.7 s)
Non-Prism mode	1.0 s (initial 1.5 s)	0.5 s (initial 1.3 s)	0.3 s (initial 0.8 s)
Least count	0.1 mm or 1 mm (0.0002 ft or 0.002 ft)	10 mm (0.02 ft)	10 mm (0.02 ft)

ANGLE MEASUREMENT

Accuracy (Standard Deviation based on ISO 17 Reading system Circle diameter Horizontal/Vertical angle Minimum increment (Degree, Gon) 1" model. 2" 3", 5" models	0.6 mgon), 3" (1.0 mgon), 5" (1.5 mgon)
TELESCOPE Tube length. Image. Magnification Effective diameter of objective. EDM Diameter. Field of view Resolving power Minimum focusing distance Laser Pointer	Erect 30× (19x/38x with optional eyepieces) 45 mm (1.77 in) 50 mm (1.97 in) 1º 25' 3" .1.5 m (4.9 ft)

Tracklight

TILT SENSOR

ГуреDual-axi	
MethodLiquid-electric detectio	n
Compensation range ±5	3'

COMMUNICATIONS

Communication ports	1 x serial (RS-232C), 1 x USB (host)
Wireless communications	Integrated Bluetooth

POWER
Internal Li–ion battery (x2) Output voltage
Operating time ⁶ 27 h Distance/ angle measurement 6a 27 h Continuous distance/ angle measurement 10 h
Charging time, full charge

GENERAL SPECIFICATIONS Autofocus	Yes
Sensitivity of Circular level vial on tribrach. Tangent Clamps. Display face 1. Display face 2 Point memory. Internal Plummet.	Yes back-lit, graphic LCD (128 x 64 pixels) back-lit, graphic LCD (128 x 64 pixels) 50.000 points
Optical Plummet: Magnification Field of view Minimum focusing distance Dimensions (W x D x H)	5°
Weight (approx.) 1', 2', 3'', 5'' Main unit. Battery Carrying case.	0.1 kg (0.2 lb)

ENVIRONMENTAL
Operating temperature range20 °C to +50 °C (-4 °F to +122 °F)
Storage temperature range25 °C to +60 °C (-13 °F to +140 °F)-
Atmospheric correction
Temperature range40 °C to +60 °C (-40 °F to +140 °F)
Barometric pressure
1,332 hPa/15.8 inHg to 39.3 inHg
Dust and water protection

CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval. RCM Mark. IEC60825-1 am 2007, IEC60825-1 am 2014, FDA notice 50 Prism/Reflectorless mode: Class 1 laser Laser Plummet/Laser Pointer: Class 2 laser

- 1 Good conditions (good visibility, overcast, twilight, low ambient light).
 2 Normal conditions (normal visibility, object in the shadow, moderate ambient light).
 3 Difficult conditions (haze, object in direct sunlight, high ambient light).
 4 Standard Deviation based on ISO 17123-4
 5 Measuring time may vary depending on measuring distance and conditions. Specification based on average of repeated measurements.
 6 Battery life specification at 25 °C (77 °F). Operation times may vary depending on the condition and deterioration of the battery.
 6a 21 hours when EDM power save mode set to 6 seconds.

- 6a 21 Thous a wine 12 Der power a section 2.7 For both prism and non-prism modes, EDM accuracy in normal mode is ±(10+5 ppm × D) mm and fast mode is ±(20+5 ppm × D) mm.

 8. ±(2+2 ppm × D) mm-20 °C to -10 °C (-4 °F to +14 °F), +40 °C to +50 °C (+104 °F to +122 °F).

Bluetooth type approvals are country specific.

Specifications subject to change without notice.







Contact your local Trimble Authorized Distribution Partner for more information

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