Trimble C3

MECHANICAL TOTAL STATION

TOUGH, EFFICIENT, ACCURACY WHEREVER WORK TAKES YOU.

The Trimble® C3 mechanical total station delivers the range of features you expect and the accuracy 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.

Key Features

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- Autofocus powered by Nikon
- Powerful long range EDM
- Compact, lightweight and rugged system design
- Dual face displays
- Intuitive onboard software





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DISTANCE MEASUREMENT

Range with specified	prisms
Good conditions ¹	

adda conditions	
With reflector sheet 5 cm x 5 cm	1.5 m to 300 m
With single prism 6.25 cm	1.5 m to 5000 m

Reflectorless mode

	Good ¹	Normal ²	Difficult ³
KGC (18%)	400 m	300 m	235 m
KGC (90%)	800 m	500 m	250 m

Accuracy in precise measurement mode

Prism⁴	 	. ±(2+2 ppm × D) mm
Reflectorless .	 	. ±(3+2 ppm x D) mm

Measuring interval⁵

	Precise mode	Normal mode	Fast mode
Prism mode	1.0 s	0.5 s	0.3 s
Non-Prism mode	1.0 s	0.5 s	0.3 s
Least count	0.1 mm or 1 mm	10 mm	10 mm

ANGLE MEASUREMENT

Accuracy (Standard Deviation based on ISO 17123-3)1" (0,3 mgon), 2" (0.6 mgon),
3" (1.0 mgon), 5" (1.5 mgon)
Reading system
Circle diameter
Horizontal/Vertical angle
Minimum increment (Degree, Gon)
1" model
2", 3", 5" models

TELESCOPE Tube length	125 mm
Image.	Erect
Magnification3	0× (19x/38x with optional eyepieces)
Effective diameter of objective	45 mm
EDM Diameter	
Field of view	
Resolving power	
Minimum focusing distance	
Laser Pointer	
Tracklight	INO

TILT SENSOR

Type	
Method Liquid-electric determination Liquid-electric deter	ction
Compensation range	

COMMUNICATIONS

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

POWER

Internal Li–ion battery (x2)	
Output voltage	3.6 V
Operating time ⁶	
Continuous angle-only measurement	22 h
Distance/ angle measurement/ AF every 30 s	18 h
Continuous distance/ angle measurement	10 h
Observations times for the learning	C I-

Charging time, full charge	6 h
GENERAL SPECIFICATIONS Autofocus	Yes
Sensitivity of Circular level vial on tribrach Tangent Clamps Display face 1. Display face 2 Point memory Internal Plummet Ootical Plummet:	Yes back-lit, graphic LCD (128 x 64 pixels) back-lit, graphic LCD (128 x 64 pixels)
Magnification	4.3 kg 0.1 kg
ENIVIDONIMENTAL	

ENVIRONMENTAL

Operating temperature range
Storage temperature range
Atmospheric correction
Temperature range40 °C to +60 °C
Barometric pressure 400 mmHg to 999 mmHg/533 hPa to
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

- Good conditions (good visibility, overcast, twilight, low ambient light).
 Normal conditions (normal visibility, object in the shadow, moderate ambient light).
 Difficult conditions (haze, object in direct sunlight, high ambient light).
 Standard Deviation based on ISO 1723-4
 Measuring time may vary depending on measuring distance and conditions. Specification based on average of repeated measurements
- of repeated measurements.

 8 Battery life specification at 25 °C. Operation times may vary depending on the condition and deterioration of the battery.

 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.

Bluetooth type approvals are country specific.

Specifications subject to change without notice.







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