# Trimble C5 HP

### **MECHANICAL TOTAL STATION**



### **KEY FEATURES**

- ► Enjoy all of the features of Trimble® Access™software from both faces with two-color touchscreen displays
- Fully integrated with Trimble Business Center office software to manage, process, and create customer deliverables
- Keep your total station insight, even if it goes off-site with Trimble L2P
- ► Compact, lightweight and rugged

### Choose the model that works for you:



\* Measuring Angle and Distance Every 30 s.

Learn more: geospatial.trimble.com/trimble-C5HP



## Trimble C5 HP MECHANICAL TOTAL STATION

#### DISTANCE MEASUREMENT

Range with specified prisms

Good conditions <sup>1</sup>	C5 HP
With single prism 2.5 in (6.25 cm)	9,843 ft (3,000 m)
With reflector sheet $2 \ln x 2 \ln (5 \operatorname{cm} x 5 \operatorname{cm})$	886 ft (270 m)

#### Reflectorless mode

C5 HP	Good <sup>1</sup>	Normal <sup>2</sup>	Difficult <sup>3</sup>
KGC(90%)	1,640 ft (500 m)	1,312ft (400 m)	820 ft (250 m)
KGC(18%)	1,148ft(350 m)	820ft (250 m)	656ft (200 m)

#### Accuracy in standard measurement mode

	C5 HP <sup>4, 8</sup>
Prism⁴	$\pm (1 \text{ mm} + 1.5 \text{ ppm})$
Reflectorless	$\pm (2mm + 2ppm)$

#### Measuring interval<sup>5</sup>

C5 HP	Standard mode	Fast standard mode
Prism mode	1.6 s	1.2s
Reflectorless Mode	2.1 s	1.6s

#### ANGLE MEASUREMENT

Accuracy (Standard Deviation based on ISO 1)	7123-3) 1" (0,3 mgon), 2" (0.6 mgon), 3" (1.0 mgon), 5" (1.5 mgon)
Reading system	
Circle diameter	
Horizontal/Vertical angle	
TELESCOPE	
Tube length	5.0 in (128 mm)
Image	Erect
Magnification	30x (19x/38x with optional eyepieces)
Effective diameter of the objective	
Trimble C5 HP	
EDM Diameter	, ,
Trimble C5 HP	1.8 in (45 mm)
Field of view	
Resolving power	3"
Minimum focusing distance	4.9 ft (1.5 m)
Laser Pointer	Coaxial Red Light
Tracklight	Yes
Reticle Illumination	Yes, 4 steps

#### TILT SENSOR

#### COMMUNICATIONS

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Internal Li-ion battery (x2)

Output voltage
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Operating time <sup>6</sup>	C5	C5 HP
Continuous angle-only measurement	14 h	19 h
Distance/ angle measurement/ AF every 30 s	12 h	18 h
Continuous distance / angle measurement	7 h	10.5 h
Charging time, full charge both batteriesapprox. 6 h		

### **GENERAL SPECIFICATIONS**

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Level vials	
Sensitivity of Circular level vial on tribrach	10′/2 mm
Tangent Clamps	Yes
Display face 1	LCD back-lit (640 x 480 pixel)
Display face 2	LCD back-lit (640 x 480 pixel)
Operating system	Windows® Embedded Compact 7
Processor	
Point memory	512 MB RAM, 4 GB flash memory
Internal Plummet	Optical or Class 2 Laser
Optical Plummet:	,
Magnification	x
Field of view	5°
Minimum focusing distance	
Dimensions (W x D x H)	
	(206 mm x 169 mm x 318 mm)
Weight (approx.)	(
1", 2", 3", 5" Main unit	
Trianda CE LID	0.7 lb (4.4 lcs)

Weight (approx.)	
1", 2", 3", 5" Main unit	
Trimble C5 HP	9.7 lb (4.4 kg)
Battery	0.2 lb (0.1 kg)
Carrying case	

#### **ENVIRONMENTAL**

EITTING IT IEITINE	
Operating temperature range	4 °F to +122 °F (-20 °C to +50 °C)
Winterized	–22 °F to +122 °F (–30 °C to +50 °C)
	13 °F to +140 °F (-25 °C to +60 °C)
Winterized	22 °F to +140 °F (-30 °C to +60 °C)
Atmospheric correction	· · · · · · · · · · · · · · · · · · ·
Temperature range	40 °F to +140 °F (-40 °C to +60 °C)
Barometric pressure 15.8 i	nHg to 39.3 inHg (400 mmHg to 999 mmHg)
	or (533 hPa to 1,332 hPa)
Dust and water protection	` P66

#### CERTIFICATION

Class B Part 15 FCC certification, CE Mark approval. RCM Mark. IEC60825-1 am 2007, IEC60825-1 am 2014, FDA notice 50

١	COTT		
	Prism mode	Class 1 lase	er
	Reflectorless/Laser Pointer	Class 3R lase	er

Good condition (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 17123-4

Standard Deviation based on ISO 17123-4 Measuring time may vary depending on measuring distance and conditions. Specification-based on twaverage of repeated measurements. Battery life specifications at 77 °F (25 °C). Operation times may vary depending on the condition and deterioration of the battery. For both prism and reflectorless modes, EDM accuracy in fast standard mode is  $\pm$  (10 mm + 5 ppm) for the C5,  $\pm$  (5 mm + 5 ppm) for the C5 HP, and tracking mode is  $\pm$  (20 mm + 5 ppm) for the C5

8 C5 HP accuracy in standard measurement mode to a prism less than 1000 m away is  $\pm$  (1 mm + 1.5 ppm). At a range greater than or equal to 1000 m, the accuracy is  $\pm$  (2 mm + 2 ppm).

Bluetooth type approvals are country-specific.

Specifications are subject to change without notice











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