



Trimble TSC5

CONTROLLER



KEY FEATURES

- ▶ Back-lit international alphanumeric keypad with directional keys
- ▶ 12 programmable function keys
- ▶ Function, Shift and AGr key combinations
- ▶ Ergonomic design, easy to grip and carry, less handling fatigue
- ▶ All day battery, with user-replaceable battery option
- ▶ 5-inch multi-touch screen—with finger, stylus and glove modes
- ▶ Bright, anti-glare display, readable in sunlight and lowlight conditions
- ▶ Military-spec rugged design, IP65 rated
- ▶ Android™ 10 operating system
- ▶ Google Mobile Services certified with access to Google Play™ store apps
- ▶ Optimised for Trimble® Access™ field software
- ▶ EMPOWER module compatible

Learn more:
geospatial.trimble.com/TSC5

Trimble TSC5 CONTROLLER

| PHYSICAL SPECIFICATIONS | |
|-------------------------|--|
| Size | 287.1 mm x 175.6 mm x 43.9 mm (11.3" x 6.9" x 1.7") |
| Weight | 934 g Excluding optional removable battery, EMPOWER module, pole bracket and other accessories |
| Housing | PC-EXL9330 Case with TPU-Texin990 overmold |

| ENVIRONMENTAL SPECIFICATIONS (MEETS OR EXCEEDS) | |
|--|---|
| Operating Temperature | MIL-STD-810H, Method 501.7 & 502.7, Procedure II -30 °C to +60 °C (-22 °F to +140 °F) |
| Storage temperature | MIL-STD-810H, Method 501.7 & 502.7, Procedure I -40 °C to +70 °C (-40 °F to +158 °F) |
| Startup temperature | -20 °C to +60 °C (-4 °F to +140 °F) |
| AC adapter / charging temperature | 0 °C to +40 °C (32 °F to 104 °F) |
| Dust | IP6x: 8 hours with blowing talcum powder (IEC 60529) |
| Water | IPx5: Water Jet 6.3 mm diameter @ 3 minute, 12.5 litre/minute (IEC 60529) |
| Transit Drop | MIL-STD-810H, Method 516.8, Procedure IV 26 drops (each face, edge & corner) at room temperature from 1.22 m (4 ft) onto concrete 6 faces at low and high temps (-30 °C and +60 °C (-22 °F and +140 °F)) Ball drop similar to IEC 60950-1, 50 mm steel ball dropped 0.5 m on touch panel only |
| Humidity | MIL-STD-810H, Method 507.6 Procedure II 90% RH temp cycle 30 °C / 60 °C (86 °F / 140 °F) |
| Vibration | MIL-STD-810H, Method 514.8 Procedures I & II General minimum integrity and loose cargo test |
| Altitude (low pressure) | MIL-STD-810H, Method 500.6, Procedures I (storage), II (operating) & III (rapid decompression) Operational at 9,144 m (30,000 ft) at 5 °C / 41 °F Storage at 12,192 m (40,000 ft) at -30 °C / -22 °F Rapid Decompression 2,438m (8,000 ft) to 12,192 m (40,000 ft) in <15 seconds at 25 °C / 77 °F |
| Temperature Shock | MIL-STD-810H, Method 503.7, Procedure I-C Survives cycles between -30 °C and +60 °C (-22 °F and +140 °F) |
| Solar Exposure | MIL-STD-810H, Method 505.7, Procedures I & II Survives prolonged solar exposure |
| Salt Spray | ASTM B117 5% salt solution, 96 hrs |

| SECURITY | |
|---|--|
| Application security, hardware token, Qualcomm® processor security, hardware backed encryption, storage encryption, TLS 1.3, platform hardening, quarterly Android security patches. Android Security Updates provided until December 2024 | |

| CONFIGURATIONS | |
|------------------------|--|
| EMPOWER module support | 1 x module bay supports EM100 GNSS radio module, EM120 2.4 GHz receiver module, EM11x barcode/RFID modules, and more |

| CERTIFICATIONS | |
|------------------------|---|
| Country certifications | Australia, Brazil, Canada, China, EU, India, Japan, Mexico, New Zealand, Russia, South Africa, South Korea, Taiwan, Thailand, UAE United Arab Emirates, UK and USA. |
| Environmental | Conflict Minerals, China RoHS 2.0, EU RoHS 2.0, EU REACH |

| COMPATIBLE FIELD SOFTWARE | |
|--|--|
| Trimble Access™ version 2021 and later | |
| Android 10 applications | |

| ELECTRICAL SPECIFICATIONS | |
|-----------------------------|--|
| Processor | Qualcomm SDA660 |
| Memory | 4 GB LPDDR4X RAM |
| Storage | 64 GB Flash eMMC |
| Operating System | Android 10 |
| Batteries | Internal Li-Ion 4530mAh/7.2V nominal capacity optional user replaceable Li-Ion battery pack |
| Battery life | RTS usage 16 hours or GNSS RTK usage 18 hours (depending on display settings, connectivity, data processing, ambient temperature, etc.) Fully charged battery can support sleep state for 7.2 days and off for more than 175 days |
| Charging time | Full-charge 3.5 hours, 0–50 % charge in 1.5 hours |
| Power input | 5 V/9 V 3A charging, USB-PD compliant with Type C connector |
| Notification LED | Battery status, Shift, Fn, Ctrl, AGr, Caps Lock, Search, and Cursor Lock LED indicator |
| Display | 5" landscape HD (1280x720) 300 DPI transfective type TFT Display, 365 cd/m ² sunlight readable LED backlight, projective capacitive multi-touch touchscreen with stylus, finger, and glove modes |
| Keyboard | International backlit alpha-numeric and QWERTY with Fn keys (12 physical + multiple Fn, Shift & AGr key combinations) |
| Audio | 1 W mono speaker and dual microphones with noise cancelling technology |
| External speaker/microphone | USB-C or Bluetooth headsets supported |
| I/O | USB-C for charging and USB 2.0 data transfer USB-PD 2.0 supports charger inputs up to 9 V/3 A |
| WWAN | Worldwide LTE 4G in regions where it is available, and compatible with 3G networks. AT&T and Verizon certified, MicroSIM card. |
| Wi-Fi | 2.4 GHz 802.11 b/g/n/ac & 5.0 GHz 802.11 a/n/ac |
| Bluetooth® | Bluetooth 5 classic & BLE 5, Class 1 |
| Camera | Rear camera: 13MP auto-focus with LED flash |
| GNSS | Integrated Sierra Wireless EM7565: L1 C/A, GPS/GLONASS/BeiDou/Galileo/QZSS |
| Sensors | Ambient light sensor, e-Compass, accelerometer, gyro sensor |

Specifications subject to change without notice.



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