Settop M1

TOTAL STATION CONTROLLER FOR REAL-TIME MONITORING

The Settop M1 monitoring controller enables users to remotely manage and control Trimble total stations for real-time monitoring projects. And using Trimble 4D Control software, users have a means to reliably transfer total station data 24/7 creating a robust real-time monitoring solution.

The Settop M1 reduces equipment requirements and eliminates many of the devices required for real-time monitoring jobs by combining the functionality of a field computer, remote switch, device server, router, Wifi router, and cellular modem into one device. With the Settop M1, you greatly reduce the complexity of system setup in the field-saving time and effort.

With a large internal memory, the Settop M1 monitoring controller bridges communication gaps by continuing to collect and store data from the total station during any communication network outages. This enables all data to be transmitted to Trimble 4D Control monitoring software when the network connection is restored, ensuring every measurement cycle is

part of the reporting and alarming required by real-time monitoring.

The Settop M1 web interface gives you control over your total station, including remotely configuring automatic measurement cycles and checking the status of data collection. This Web UI is accessible when you are in the field via the local WiFi connection, or back in the office by using the included Cloud service. Now it's easy to access the total station remotely to change settings or check status at anytime, from anywhere, without the need for a static IP or complex IT setup.

The Settop M1 easily connects to the Cloud service via its in-built cellular modem or WiFi depending on what is available at the monitoring site. When your project requires Ethernet connectivity the Settop M1 connects to the octoHub, an optional accessory. The octoHub includes several additional communication ports enabling connection of extra monitoring sensors.

Key Features

► This one-of-a-kind total station controller is a combination of a field computer, device server, router, cellular modem and remote switch. By merging these items into one device, field set-up is quick and simple

► Data collection and storage is continuous; even when the internet connection is disrupted, measurement cycles will continue

► Free subscription to IST Connect Cloud Service simplifies central server connection

Reliable Performance For:

► Construction Monitoring
► Mine Monitoring
► Slope Monitoring
► Structural Monitoring

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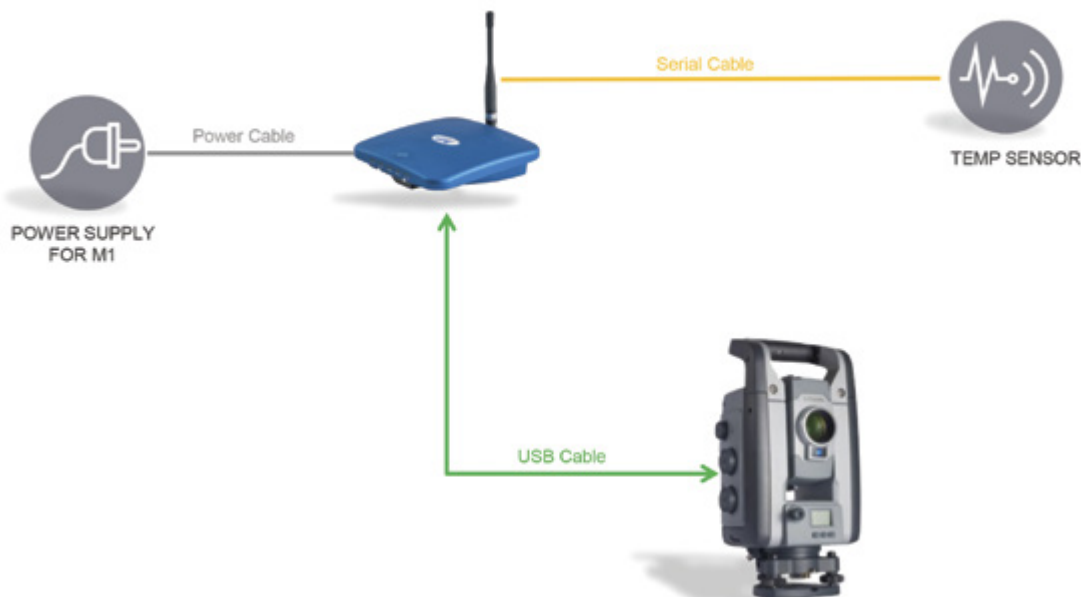
Settop M1 TOTAL STATION CONTROLLER

Electrical & operating requirements

- External Power: 12 – 30V AC.
- Power:
  - All components activated at full power: 12.8 W
  - GSM reception mode: 5.6 W
  - GSM mode & radio off: 3.6 W
- Operating temperature −40º a 75º C
- Storage temperature −55º a 85º C
- Random vibe MIL-STD 810F (7.7 g RMS)
- Vibe SAEJ1211 (4 g)
- Bump/Shock IEC 68-2-27 (30 g)
- IP67

Settop M1 Communication Ports

- 1 RS232/USB Host Event port, PPS Power In/Out
- 2 RS232/USB OTG port Power In/Out
- 1 FME connector for GSM antenna
- 1 Slot SIM card
- 1 Slot MicroSD card

octoHub Ports

- 2 USB Host
- 3 RS232
- 1 Ethernet
- 1 Thermometer
- 1 Total Station
- 1 Settop M1
- 1 Power input

Connections

GSM HSDPA modem (3.5G)

- Dual Band UMTS: 900 / 2100 MHz (EU3-E)
- Five-Band UMTS: 800 / 850 / 900 / 1900 / 2100 MHz (PH8-P)
- Dual Band GSM: 900 / 1800 MHz
- HSDPA data: DL : max. 3.6 Mbps, UL: max. 384 kbps
- UMTS data: DL: max. 384 kbps, UL: max. 384 kbps
- EDGE data: DL: max. 237 kbps, UL: max. 118 kbps
- GPRS data: DL: max. 86 kbps, UL: max. 43 kbps
- GSM/CSD data transmission: 14.4 kbps

WiFi

IEEE 802.11b/g

Bluetooth

2.0 + ERD (Enhanced Data Rate) wireless technology

Size and weight

- Size:
  - Width: 13.8 cm
  - Depth: 13.8 cm
  - Height: 3.5 cm
- Weight: 0.6 Kg

Ordering Information

Part No.	Description
110471-00	Settop M1 Monitoring Controller includes: • AC/DC power supply • Trimble Total Station to Settop M1 cable • External temperature sensor and cable
110471-40	octoHub communications device for Settop M1

Specifications subject to change without notice.

octoHub Communications Device

Contact your local dealer today

TRANSFORMING THE WAY THE WORLD WORKS

www.trimble.com/monitoring

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