



PM Module

Model 7591-01

Operation Instructions

- 1. Power On:** Hold down power button on left side of module for 1 second.
- 2. Power Off:** Hold down power button on left side of module until you see a light sequence of green, yellow, red. That indicates module is off.
- 3. Charging:** Plug USB-C into bottom of module and into power source. A blinking green light indicates module is charging.
- 4. Connecting to a Smart Station:** Power on module by holding down the circle on the left for 1 second. A blue LED light will start to blink indicating Bluetooth® is on.
 - The module will appear in the list on the Smart Station. If not, hit Refresh.
 - Press desired module on screen to connect to Smart Station. A green check mark indicates a successful connection.
 - Press Done

Now you're ready to take measurements.

The OmniTrak™ Smart Station can be used in conjunction with any OmniTrak™ Module to provide immediate feedback as to the conditions in the immediate area. Take measurements, create reports, and analyze data provided to help improve conditions. This instrument is a handheld device, not to be worn on the body, or near an individual's head.

Dispose of battery in accordance with local rules and regulations.

What's Included in the Box

- Device
- USB-C Cable

NOTE: All modules, by default, are shipped in 'Sleep Mode' to protect the battery. It will not be possible to power on the Module, using the side button, until 'Sleep Mode' is disabled. To disable, plug the module into a power source and charge the module for a few minutes. This process is required only once.

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Specifications

PM Sensor Specifications

Number Concentration Range	0 to 3'000	—	#/cm ³
Number Concentration Size Range	NC0.5	0.3 to 0.5	µm
	NC1.0	0.5 to 1.0	µm
	NC2.5	1.0 to 2.5	µm
	NC4	2.5 to 4.0	µm
	NC10	4.0 to 10.0	µm
Number Concentration Precision for PM0.5, PM1, and PM2.5	0 to 1000 #/cm ³	±100	#/cm ³
	1000 to 3000 #/cm ³	±10	% m.v.
Number Concentration Precision for PM4, PM10	0 to 1000 #/cm ³	±250	#/cm ³
	1000 to 3000 #/cm ³	±25	% m.v.
Mass Concentration Range	0 to 1'000	—	µg/m ³
Mass Concentration Size Range	PM1.0	0.3 to 1.0	µm
	PM2.5	0.3 to 2.5	µm
	PM4.0	0.3 to 4.0	µm
	PM10.0	0.3 to 10.0	µm
Mass Concentration Precision for PM1, and PM2.5	0 to 100 µg/m ³	±10	µg/m ³
	100 to 1000 µg/m ³	±10	% m.v.
Mass Concentration Precision for PM4, PM10	0 to 100 µg/m ³	±25	µg/m ³
	100 to 1000 µg/m ³	±25	% m.v.

AC and DC Power Requirements

AC/DC Power Supply	100 to 240 VAC, 50/60 Hz, 0.3A
Device Input Power	5 VDC, 2A, 10W

Environmental/Installation Requirements

Maximum Altitude	3000 meters (10,000 feet)
Pollution Degree	2
Installation Category	I
Operating Temperature	5°C to 40°C
Storage Temperature	-20°C to 60°C
Humidity	0% - 95% (non-condensing)

Compliance

FCC ID: 2A22JTSIBLE23
IC ID: 28101-TSIBLE23

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Per FCC 15.21 Changes or modifications not expressly approved by TSI will void the product warranty and may void the user's authority to operate the equipment.

Equipment is intended for use in an industrial or residential electromagnetic environment. The equipment compliance with requirements of EN 61326-1.

Compliance

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

To satisfy RF exposure requirements, this device and its antenna may be operated near a persons body and the extremities, but must be operated with a separation distance of at least 20 cm from all person's head.

Pour satisfaire aux exigences d'exposition RF, cet appareil et son antenne peuvent être utilisés à proximité du corps et des extrémités d'une personne, mais doivent être utilisés avec une distance de séparation d'au moins 20 cm de la tête de toute personne.

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WARNING

- **DO NOT** attempt to replace the battery in this instrument.
- **DO NOT** abuse the battery in any way as the battery may rupture or catch fire.
- **DO NOT** use a substitute or non-rechargeable battery in this instrument.
- **DO NOT** short-circuit, incinerate, dismantle or mutilate Lithium ion batteries
- **DO NOT** expose to water or heat.
- **DO NOT** use any battery which shows signs of damage, such as bulging, swelling, a swollen plastic wrap, liquid in the plastic wrap, etc.



LASER WARNING

- OmniTrak™ Modules are Class 1 laser-based instruments.
- During normal operation, you will not be exposed to laser radiation.
- **DO NOT** open the OmniTrak™ Module when it is powered **ON**.
- You will not be exposed to the laser radiation when the OmniTrak™ Module is disassembled.
- The PM sensor has a laser inside it. **DO NOT** open the PM sensor inside OmniTrak Module when the OmniTrak Module is powered.



AVERTISSEMENT LASER

- Les modules OmniTrak™ sont des instruments à base de laser de classe 1.
- Pendant le fonctionnement normal, vous ne serez pas exposé au rayonnement laser.
- N'ouvrez **PAS** le module OmniTrak™ lorsqu'il est sous tension.
- Vous ne serez pas exposé au rayonnement laser lorsque le module OmniTrak™ est démonté.
- Le capteur PM contient un laser. **NE PAS** ouvrir le capteur PM à l'intérieur du module OmniTrak lorsque ce dernier est alimenté.



Knowledge Beyond Measure.

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