



MethaneTrack™V1 Endpoint User Guide For Hazardous Locations

Document Number: SM-UM-0015

NN Model:MTEP

Notices

SM-UM-0011-C01

Copyright © 2023 Nevada Nanotech Systems Inc. All rights reserved.

1395 Greg Street, Suite 102

Sparks, Nevada 89431

All Rights Reserved

This publication is protected by copyright and all rights are reserved. No part of it may be reproduced or transmitted by any means or in any form, without prior consent in writing from NevadaNano.

The information in this document has been carefully checked and is believed to be accurate. However, changes are made periodically. These changes are incorporated in the newer publication editions. NevadaNano may improve and/or change products described in this publication at any time. Due to continuing system improvements, NevadaNano is not responsible for inaccurate information which may appear in this manual. For the latest product updates, consult the NevadaNano web site at www.nevadanano.com. In no event will NevadaNano be liable for direct, indirect, special exemplary, incidental, or consequential damages resulting from any defect or omission in this document, even if advised of the possibility of such damages.

In the interest of continued product development, NevadaNano reserves the right to make improvements in this document and the products it describes at any time, without notices or obligation.

The Molecule logo is a trademark of Nevada Nanotech Systems Inc. Use of the logos for commercial purposes without the prior written permission of NevadaNano may constitute trademark infringement and unfair competition in violation of federal and state laws.

NevadaNano, the Molecule logo, Molecular Property Spectrometer, and MPS are trademarks of Nevada Nanotech Systems Inc.

Other trademarks and trade names may be used in the document to refer to either the entities claiming the marks and names or their products. Nevada Nanotech Systems Inc. disclaims any proprietary interest in trademarks and trade names other than its own.



Please Recycle

Shipping materials are recyclable. Please save them for later use, or dispose of them appropriately.

1. Introduction

1.1. This document contains the hazardous area user manual for the MethaneTrack™ Endpoints, model number MTEP

2. Regulatory Information

The following MethaneTrack™ Endpoint (MTEP) falls within the scope of the product approvals shown below:

2.1. Nevada Nano Model: MTEP

2.1.1. FCC ID: 2BAGY-MTEP

2.1.1.1. FCC COMPLIANCE INFORMATION

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

2.1.1.2.1. (1) this device may not cause harmful interference, and

2.1.1.2.2. (2) this device must accept any interference received, including interference that may cause undesired operation.

2.1.1.3. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

2.2. MTE1 Warnings

2.2.1. Warning: Potential electrostatic discharge hazard. See instructions, NFPA 77 and

IEC TS60079-32-1 for guidance



2.2.2. Warning: Use only Nevada Nano Battery Module P/N 55-000001

2.2.3. Warning: Substitution of components may impair Intrinsic Safety

Additional certifications exist beyond those displayed in the product approval table shown below. Please consult NevadaNano for additional certifications.

3. Hazardous Location Use Guidelines

3.1. Connection of Radio & Sensor Module and Power Module

It is recommended that steps 3.1.1 through 3.1.3 are performed in a controlled environment that is known to be non-hazardous.

- 3.1.1. Connect the battery pack cable of the power module (55-000001) to the keyed receptacle on the radio and sensor module (53-000022).



- 3.1.2. Align the radio and sensor module and the power module and begin sliding the two together. The radio and sensor module will fit inside of the power module.



- 3.1.3. The connection of the two modules is completed when the radio and sensor module 'snaps' into place within the upper enclosure. The pictures below show the approximate depth required for the 'snap.'



Step 3.1.3 completes the connection of the radio and sensor module with the power module. The subsequent steps can be performed within Hazardous Zones, if needed.

3.2. Turning the endpoint ON and OFF.

The magnetic tool is used to turn the endpoint on and off. The magnetic tool fits within a trapezoidal slot on the bottom of the endpoint.



3.2.1. Powering on the endpoint

- 3.2.1.1. Insert the magnetic tool into the slot and holding for approximately 1-3 seconds. An internal green LED will activate and blink down the length of the magnetic tool.
- 3.2.1.2. Remove the magnetic tool within 10 seconds of seeing the blinking green LED light

3.2.2. Powering off the endpoint

3.2.2.1. Inserting the magnetic tool into the slot and holding for approximately 10 seconds. An internal green LED will activate, shine down the length of the magnetic tool, and remain on for the remainder of the 10 seconds.

3.2.2.2. Once the steady green LED is off, remove the magnetic tool.

3.3. LID attachment to the Endpoint

3.3.1. The LID for the Radio and Sensor Module (22-000029) should be reattached to the endpoint.



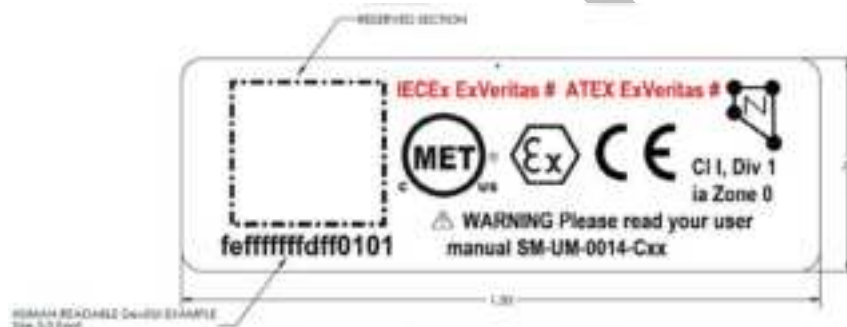
4. Product Specifications & Markings

4.1.Environmental Range

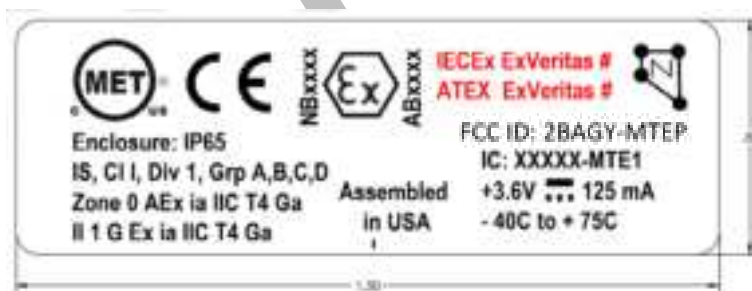
Parameter	Minimum	Maximum
Temperature	-40 °C (-55 °C Storage)	+75 °C (+85 °C Storage)
Relative Humidity	0%	100% (non-condensing)
Atmospheric Pressure	80 kPa	120 kPa
IP Rating	Certified to IP65	Capable to IP66

4.2.Markings / Labels

4.2.1. Representative Sample of the Label for the Radio and Sensor Module (26-000022-DWG)



4.2.2.Representative Label for the Lid, Radio and Sensor Module (26-000023-DWG). Contains the generic Hazardous Location certification information for MTEP



4.2.3.Representative label for the Power Module (26-000021-DWG). Contains power number serial number information and MTEP Warnings.



Annex A:**Supplier's Declaration of Conformity
and
Regulatory Statements**

Model: Methane Tracker Endpoint (MTEP)

Nevada Nanotechnology Systems
1395 Greg Street, Suite 102.
Sparks, NV 89431
info@nevadanano.com
(775)-972-8943.

FCC Radio Frequency Interference Warnings

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Guidelines for Human Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

FCC Information to User

This product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This Class A digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference and
- (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"

The radio transmitter has been approved by Industry Canada to operate only with the antenna(s) supplied. Use of any other antenna(s) is strictly prohibited for use with this product.

L'émetteur radio a été approuvé par Industrie Canada pour fonctionner uniquement avec l'antenne(s)

En outre,

- (1) Le fonctionnement doit être limité à une utilisation en intérieur uniquement ; et
- (2) Fonctionnement sur plates-formes pétrolières, voitures, trains, bateaux et avions est interdite sauf sur les gros porteurs volant au-dessus 10 000 pieds

INDUSTRY CANADA RADIATION EXPOSURE STATEMENT

MPE/SAR

To comply with RSS-102 requirements, a separation distance of 20 cm must be kept between the device and the user at all times.

Pour se conformer aux exigences RSS-102, une distance de séparation de 20 cm doit être maintenue entre l'appareil et l'utilisateur à tout moment.

**Supplier's Declaration of Conformity
and
Regulatory Statements**

Model: Methane Tracker Endpoint (MTEP)

Nevada Nanotechnology Systems
1395 Greg Street, Suite 102.
Sparks, NV 89431
info@nevadanano.com
(775)-972-8943.

FCC Radio Frequency Interference Warnings

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Guidelines for Human Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

FCC Information to User

This product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.