

# Safety Considerations (TM5N, TM5N-EX)

Read this section carefully and follow all instructions to ensure proper use of the unit.

- The precautions listed on this sheet are designed to ensure safety and prevent equipment damage as well as personal injury to yourself and others. Cautionary items are important for safety; be sure to observe all of them.
- The TM5N-EX is approved for use in hazardous locations only while inserted in the leather case. Do not remove the case while in a hazardous location. Product markings are provided on the product enclosure beneath the leather case. For hazardous areas, the TM5N-EX should be used by trained personnel with knowledge of the hazardous locations/classifications.



**WARNING: There is the potential for death or serious injury**

## 1. Charging Precautions

### a) Do NOT charge with other than specific incoming voltage (Ui: 4.5 V) and current (Ii: 300 mA).

Charging with other than specific incoming voltage (Ui: 4.5 V) and current (Ii: 300 mA) may result in fire, damage to the unit or electrical shock.

### b) Use only a standard commercial power source.

Do NOT use this charger with other than a standard commercial power source. This may result in fire or unit failure.

### c) Do NOT operate with wet hands.

Do not connect or remove the charger with wet hands. This may result in electric shock.

### d) Do NOT use the charger in explosion hazard areas.

The charger is not explosion-proof. Do NOT use in explosion hazard areas.

### e) Be careful when handling the charger cord.

Do NOT damage it by bending it, binding it or pulling it excessively. Also do NOT place objects on top of the cord or allow it to contact hot objects, as this may result in fire or electrical shock.

### f) Handling the charger.

When removing the charger from the electrical outlet, grasp the charger body of the adapter. Do NOT pull on the cord, as this may damage the cord and result in fire or electric shock.

### g) Do NOT leave the charger (AC adapter) plugged in after charging is complete.

Once main charge is complete and the charger has switched to trickle charge, make sure to unplug the AC adapter, as failure to do so may result in heat generation or fire.

## 2. Battery Precautions

### a) Do NOT attempt to disassemble the battery under any circumstances.

Battery fluid leakage may cause injury to the skin or damage to clothing.

### b) Use only eneloop AAA batteries.

For the TM5N-EX (intrinsically safe), use only SANYO HR-4UTGB or Panasonic BK-4MCC (eneloop AAA) batteries.

Do NOT use any other batteries those specified, as this may result in fire or injury.

### c) Do NOT dispose of batteries by burning.

Whether batteries are new or used, do NOT dispose of them by tossing them into a fire, as they may EXPLODE causing injury.

### d) Do NOT attempt to remove/replace batteries in explosion hazard areas.

Including TM5N-EX (intrinsically safe), remove/replace batteries somewhere other than explosion hazard areas. Failure to observe this warning may result in explosion, fire or injury.

### e) At time of replacement, exchange all batteries for new.

Mixture of new and old batteries may lead to improper operation of the unit.



## 3. Precautions for Site Inspections

### a) Do NOT operate the unit while you are walking around.

When operating the unit, make sure you are stationary and in a safe location out of traffic and clear of operating equipment.

### b) Take measures to prevent getting caught in rotating machinery.

When passing by or working near rotating machinery, take measures to prevent the strap, earphone cord, clothing, etc., from getting caught in the machinery. This may result in accident or injury and damage to the unit or equipment.

### c) Take measures to prevent burns during use.

Wear insulated gloves and protective clothing or take other measures to make sure you will not be burned even if you happen to touch one of the hot pipes.

### d) Make sure to lower the volume of the earphone before use.

Using the earphone in places where there is loud noise or vibrations may result in hearing loss.



## 4. Other Precautions

### a) Do NOT attempt to disassemble or modify the unit.

Do NOT attempt to disassemble or modify the body, probe, coiled cord, etc. This may result in fire or unit failure.

### b) Make sure no foreign matter gets inside the unit.

In areas with a great deal of metal powder or other fine foreign matter, take measures to prevent this foreign matter from getting inside the unit. This may result in fire or unit failure.

### c) Do NOT transfer data between TM and PC in an explosion hazard area.

This may result in explosion or fire.

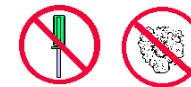
### d) Do NOT remove the leather case (case name: TM5N-LC-EX) while in a hazardous location.

The TM5N-EX (intrinsically safe) is approved for use in hazardous locations only while inserted in its case.

### e) Do not wipe/rub the surfaces of this product with a dry cloth etc.

There is the danger of electrostatically charging the unit, which may result in fire or explosions, especially in explosion hazard areas.

The maximum measured capacitance from the probe receptacle to ground is 14.3 pF. The user shall determine suitability in the specific application.



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