



## ■ TSTLP®/TS-SLC3D 7-Digit Advanced Lightning Counter with Date & Time Record

**INTRODUCTION:** TSTLP® TS-SLC3D advanced lightning counter is designed for easy mounting on a down conductor (Earthing Line) to effectively count the times of lightning/surge current discharged by E.S.E Air Terminal or surge protector, recording exact DATE & TIME. And it does NOT require the use of any external power source.



### ❖ TECHNICAL DATA

TSTLP® Model Nr	<b>TS-SLC3D</b>
Power Supply	3V battery, Type CR123A, Exchangeable
Min count current	> 1kA, rise time 8~10μs. (> 0.5kA can be DONE as specific requirement)
Sequence of impulse	> 1s
<b>LCD indicator</b>	<b>7-digit (0~9999999)</b>
<b>Record</b>	<b>Recording exact DATE &amp; TIME</b>
Inductive line	1m long Twisted-pair
Service life of battery	≥ 1.5 years (Do NOT pull the Insulated part before use)
Enclosure material	Black thermoplastic, UL94-V0
Installation	Mount on 35mm Din rail or inside waterproof box
Dimension	2.2 standard module width
Working temperature	-10°C ~ +55°C
Relative humidity	≤95% (25°C)
Compliance	<b>CE(EMC, LVD)</b>

### ❖ MAIN CHARACTER

- ✓ 7-digit Display (0~9999999)
- ✓ Circle Ring Sensor used with Power SPD / Flat Sensor used with ESE Air Terminal
- ✓ Powered by replaceable 3V Lithium battery, 0.96 inches, 128\*64 resolution OLED display.
- ✓ TS-SLC3D advanced counter could not only count TIMES struck by lightning/surge, but also could record exact date & time struck by lightning/surge.

### INSTALLATION INSTRUCTION

1. There is an insulated transparent tape attached to the battery, pull the tape "Battery on PULL" before installation to ensure the power supply works smoothly.
2. Open the inductive ring and clamp the earthing wire, then fix the SPD on the 35mm DIN rail. As show in the following installation diagram. **Or attach the flat Sensor directly with the down conductor.**
3. Fault resolution: when the product indicates default, still reset or even no indication, open the bottom enclosure, unplug the internal battery for about 5 minutes and then assemble it back, pay attention to the battery and its holder's positive(+) and negative (-) accordingly. In this condition, it will display and work normally then do the reset (for test).

TS-SLC3D should be installed at a position along the down conductor (or PE Line) length where it can be accessed easily for inspection. Typically TS-SLC3D should be installed approximately 2 m from ground level or alternatively within the earth pit at the lower termination point of the down conductor (copper cable).

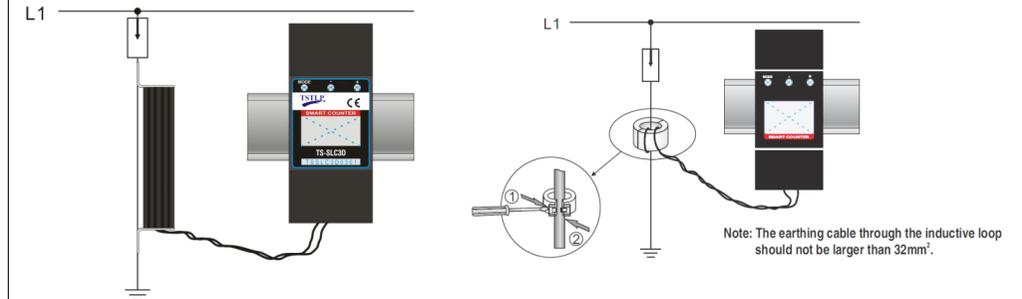
### When installing the TSTLP® Advanced Lightning Counters the following should be considered:

- TS-SLC3D should be mounted away from areas where damage may occur due to theft, vandalism or nearby operations.
- TS-SLC3D can be enclosed in a security enclosure but the display should be kept visible to allow for the checking of recorded strikes.

### ❖ TIME DIRECTION:

- 1) **Normal display:** Year/Month/Date, Hour/Minute/Second & Times.
- 2) On normal display status, press the button "M" to enter into setting mode.
- 3) After entering into the setting mode, press the button "M" to convert to the digit which is to be set, at this time, the digit is flashing, press the button "+" in 3 seconds to clear to zero.
- 4) On normal display status, press the button "-" to enter into history counting mode where date & time record can be checked to view the recent 50 times, press the button "+" to change another display.
- 5) **Power-saving mode:** on display status, it will enter into power-saving mode if there is no operation in 6 to 10 seconds, press the button "M" to return to normal mode.

### INSTALLATION DIAGRAM



### WARNING:

1. The device must be installed by electrically skilled person, conforming to national standards and safety regulations.
2. It is recommended that installation should be done under power off condition.