

# EM30 TACHOMETER



## ■ Introduction

Thank you for purchasing this tachometer from SUPCO. Please take a few minutes to browse through this user manual before you begin to operate the meter to ensure that you are fully familiarized with how best to operate the meter as accurately and safely as possible. The meter is a rotational speed (measured in rpm) measuring instrument. It is normally used to measure rotational speed, e.g. of fan blades, impellers, drums and spindles.

**Warning!** Keep a safe distance from the rotating object being measured.

### 1.1.1 During use

1. For reliable measurements it is necessary to use reflective markers. To apply the reflective markers, wait until the object to be measured has come to a standstill.
2. The ideal distance to the measurement object is between 4" to 16". During the measurement, always aim at the reflective marker from an angle of approximately 30°. This avoids multiple reflections from the surface.
3. If no reflective marker can be attached, it must be checked whether the reflective properties of a reflective point on the measurement object are sufficient for rpm measurement. In this case, aim at the measurement object from the vertical, and check whether a value is displayed. If the measurement object displays several reflections per revolution, the number of ventilator vanes must be set (e.g. reflective ventilator with 5 vanes) in order to obtain correct rpm measurements.
4. If the OL symbol is displayed on the LCD, it means the readings are outside the measuring range. Please keep within the specified measuring range.
5. Never store the product together with solvents, acids or other aggressive substances.

### 1.1.2 Maintaining the product

- Do not measure at a high temperature, high humidity locations.
- When not using the instrument for a long time, please remove the battery and avoid storing in high temperature and high humidity.

## ■ Features

1. Display: 6 digits LCD Display
2. Parameters: rpm, rps
3. Resolution: 0.1 rpm (100 to 999.9 rpm)  
0.1 rps (1.7 to 100 rps)  
1 rpm (1000 to 30000 rpm)  
1 rps (100 to 500 rps)
4. Range: 100 to 30000 rpm  
1.7 to 500 rps
5. Accuracy:  $\pm 0.1\%$  reading (100.0 to 9,999rpm)  
 $\pm 0.02\%$  reading (10,000 to 30,000rpm)
6. Sample rate: once /sec
7. Auto power off: 2 minutes (app.)
8. Operating environment: 14oF to 122oF; (-10oC to +50oC)
9. Storage environment: -4 oF to 140 oF (-20 oC to +60 oC)
10. Dimensions: 4.76"(L) x 2.36"(W) x 1.18"(H)  
121mm(L) x 60mm(W) x 30mm(H)
11. Weight: 6.35 oz (app.)  
180g (app.)

## **WARNING !**

**Do not point laser directly at eye or reflective surfaces.**