



## Product Introduction

The tM600 is an optical density measuring instrument that presents results in McFarland units, also known as a McFarland nephelometer. The densitometer uses a light source to illuminate the sample and detects the intensity of light passing through the sample via a photoelectric sensor. This intensity is directly proportional to the turbidity or density of the sample, and the optical density of the sample is calculated based on the detected intensity of light. The densitometer can be used to measure the turbidity of cell suspensions within the range of 0.0–5.0 McFarland units ( $0-150 \times 10^7$  cells/ml). It enables rapid and reliable preliminary detection in fields such as microbial identification and cell concentration measurement.

## Product Applications

- Cell concentration measurement: The densitometer can be used to measure the concentration of microorganisms such as bacteria or yeast in microbial cultures. This is crucial for understanding the growth of microorganisms during fermentation processes.
- Antibiotic susceptibility testing: The density meter can assist in evaluating the susceptibility of microorganisms to antibiotics. By measuring the turbidity of microbial cultures, the degree of microbial response to antibiotics can be determined.
- Microbial identification: The densitometer serves as a rapid and reliable method for preliminary identification of microorganisms. Different types of microorganisms may produce different turbidities on the densitometer, enabling their differentiation through measurement.

## Specification

Specification	Parameter
Detection Range	0.0-5.0 McF
Resolution	0.001McF
Accuracy	±5%
Light Source	600nm±30nm LED
Detector	Silicon Photocell
Detection Mode	Normal Mode (Press button to read)
Detection Time	6s
Display	TFT LCD Screen
Sample Cell Compatibility	4.5ml cuvette, 1.1*1.1*4.3cm, PMMA, four-sided transparent, >1ml, recommended sample volume of 1.5ml or more
Power	Four 'AA' alkaline batteries
Environment	15-30°C, <75%
Dimension	150mm*80mm*85.5mm, 0.5Kg

## Order Information

Cat No.	Model	Description	Image
3007300	tM600	McFarland Nephelometer	
930003	Cuvette	4.5ml cuvette 1.1*1.1*4.3cm, PMMA, four-sided transparent, Not Universal, need to purchase	