

# Densitometers

## DEN-1 and DEN-1B

Compact and efficient benchtop densitometers for measuring turbidity of cell suspensions in a variety of life-science applications.

The densitometers are designed and factory calibrated to measure turbidity in the range of 0.3 to 15.0 McFarland units (DEN-1) 0.00 to >15.00 McFarland units (DEN-1B) with a small standard deviation. If required, they can deliver a wider measurement range (up to 15.00 McFarland units), but with a greater standard deviation.

- **Measurement range: 0.5 to 15.0 McFarland units (DEN-1), 0.00 to >15.00 McFarland units (DEN-1B)**
- **Measurement time: 1 second**
- **Precision:  $\pm 3\%$**
- **Standard deviation at 3.00 McF units:  $\pm 0.1$  McF**
- **User calibration option**



**Designed for tubes with an outer diameter of 18 mm.**  
16 mm tubes can also be accommodated by using the optional tube adaptor D16 (included)

**Factory calibrated** – retains calibration without power supply. Can be user calibrated with commercial standards or cell suspensions prepared in the laboratory

**DEN-1 and DEN-1B units are calibrated for operation in range 0.5-15.0 McF and 0->15.00 McF,** but it is possible to measure turbidity from 0McF to 15McF (note: the standard deviation of the values increases).



**DEN-1B densitometer shown (suspension turbidity meter)**

**Bright LED display** readings, conveniently shown in McFarland units, are clearly visible

**Extremely compact design** with small footprint and low profile – fits easily into the smallest workspace

**Powered by 3 x AA batteries** (DEN-1B only) or via external 12v power supply

Note: 1 McF unit is approximately equal to  $3 \times 10^8$  CFU/ml

### Applications:

- Life-science - typical applications include determining concentration of cells (bacterial and yeast cells) in the fermentation process, detecting the susceptibility of micro-organisms to antibiotics, identifying micro-organisms with various test systems, and measuring optical density at fixed wavelength





# WolfLabs

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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.