

MCFARLAND



READER V.2

(SUSPENSION TURBIDITY DETECTOR)



- ⌘ Compact, Easy to use and Portable.
- ⌘ Great precision, speed and comfort in the determination of the turbidity or density.
- ⌘ Essential tool in clinical laboratories, research facilities, and industrial settings, where precise bacterial quantification is critical for experimental success.



- McFarland Reader is designed for measurement of microbial cell suspension's turbidity in the range of 0.0 - 4.0 McFarland units or 0 cells/mL - 12×10^8 cells/mL.
- It is based on the photometry principle and is primarily used for measurement of microbial cell concentration in a solution at a fixed wavelength (600 nm) for determination of microorganism's sensitivity to antibiotics, identification of microorganisms with various test systems and as well as for inhibitory testing.
- The operation principle is based on optical density measurement of microbial cell suspension with digital result representation in McFarland units, that is proportional to the concentration of microorganisms in the solution.

Technical Specification

Display	LCD
Dimensions (L x W x H)	85 x 85 x 35 mm
Weight, within $\pm 10\%$	0.3 kg
Power consumption	0.1 W
Input voltage and current	5 V DC, 2.4A
External power supply adaptor	Input 230–240 V~, 50/60 Hz; Output 5V
Light source	LED
Wavelength	$\lambda = 600 \pm 15$ nm
McFarland unit range	0.0– 4.0
McF Resolution	0.1
McF Accuracy in the factory calibration range	$\pm 3\%$ of the full scale
Measurement time	3 s
Sample volume	3 mL minimum
External diameter of Vial	14 ± 0.2 mm



An ISO 13485 Certified Company

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Division of



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