

Laxco, Inc.



Simple Innovation

DSM-Dual



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DSM- Dual™

Features:

- ▶ Small, portable and dedicated cell density instrument
- ▶ Instrument is powered by a rechargeable battery
- ▶ Simple one button operation for functions
- ▶ USB port allows easy data collection or printing results
- ▶ Fully built-in controls and software requiring no computer for operation

Technical Information:



The DSM-Dual™ instrument is a cell density meter that is portable, light weight, easy to use and battery powered. The device functions as cell density meter for measurement of E. Coli, yeast cells and other biological agents in suspension at the 600 nm wavelength of light.

The instrument has the functions of % transmission (% T), logarithmic transmission absorption (Abs) and also provides an intervalometer for time-lapse recording. The instrument is sized to permit it to be used in smaller spaces, incubation chambers, anaerobic compartments or other environmentally controlled areas.

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A LED provides 600 nm light that is focused to the sample via fiber optic cables to obtain the readings. A simple touch panel provides all the function buttons. The control panel with the user buttons is constructed of glass for easy wipe down and spill clean-up.

A USB 2 port is provided to connect to a printer or PC. When connected to a printer, the instrument will print out the results obtained. The PC connection provides a method to input the instrument's data collected for further analysis. A fully recharged battery assembly will provide 30 days of operation free of AC power. The recharge time is 12 hours when the instrument is turned off.

Cleaning the instrument can be accomplished using common laboratory agents like de-ionized water, ethanol, or sterilized with formaldehyde or ethylene. Organic solvents like acetone should not be used as it may degrade the sample sites.

The DSM-Dual™ comes preconfigured to provide testing using extremely small 0.5 ul samples or using a standard 10 mm cuvette.

Technical Specifications	
Center Wavelength CWL (nm)	600 nm
Full Width-Half Max. FWHM (nm)	10 nm
Range	Optical density -0.3 to 1.99 A
Accuracy	± 0.05 A at 1 A
Repeatability	± 0.02 A at 1 A
Micro-Volume Pedestal	As low as 20 micro liter
Cuvette Holder	Accepts 10 mm path length semi-micro and macro cuvettes or 14-17 mm round tubes, fixed with drain channel
Memory	USB 2
Display	2000 readings
Power Requirements	240 x 160 graphic LCD
Approximate Dimensions	Internal rechargeable NiMH battery or universal external power supply (wide range 110-220 V)
Weight	194 x 84 x 173 mm (W x H x D)
Safety Certifications	0.8 kg

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