

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
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Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
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Expert team | Trust guarantee | 100% satisfaction

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MoleculardevicesThermoMax

MAXline MicroPlate Readers

Photometric Performance

Measurement Range	0.000 to 4.200 OD (340-750 nm)
Read Time (96-well Microplate)	
Endpoint	Read only: 5 seconds
	Calibration: 5 seconds
Kinetics	5 second interval between readings
Resolution	0.001 OD (340-750 nm)

Accuracy

Wavelength	Absorbance Range (OD)	Accuracy
400-750 nm	0.000 to 2.500	± (1.0% + 0.010OD)
400-<445 nm	2.501 to 3.000	± (2.0% + 0.010 OD)
445-750 nm	2.501 to 3.000	± (1.0% + 0.010 OD)
340-<400 nm	0.000 to 1.500	± (1.0% + 0.010 OD)
340-<400 nm	1.501 to 2.000	± (2.0% + 0.010 OD)

Precision

Wavelength Range	Absorbance Range (OD)	Accuracy
400-750 nm	0.000 to 2.500	± (1.0% + 0.005D)
400-<445 nm	2.501 to 3.000	± (2.0% + 0.005 OD)
445-750 nm	2.501 to 3.000	± (1.0% + 0.005 OD)
340-<400 nm	0.000 to 1.500	± (1.0% + 0.005 OD)
340-<400 nm	1.501 to 2.000	± (2.0% + 0.005 OD)
Calculated Mean Time Between Failure (MTBF)		>30,000 hours

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Light Source	Tungsten Halogen (25 watts)
Average Light Source Lifetime	>750 hours
Calibration	Self Calibrating
Drift	Zero due to digital signal processing
Optical Alignment	None required during lifetime of instrument
Photodetectors	Silicon (UV enhanced)
Filter Capacity	Six
Optical Filters Supplied	340, 405, 450, 490, 650 nm (10 nm bandwidth typical)
Filter Range Available	340-750 nm
Filter Structure	Three cavity interference filter with enhanced blocking
Reading Chamber	Light-tight during reads and calibration
Control Panel	13 direct keys plus 7 shift key functions displayed on an easy-to-use touch membrane
Computer Interface	RS232 (bidirectional control)
Printer Interface	Centronics Parallel
Microplate Carrier	Accommodates all 96-well microplates and filter-bottom microplates
Photometric Stabalization	<30 seconds

Temperature Regulation

Well-To-Well Uniformity	Temperature within the chamber will be maintained at the Temperature Set Pint and will show thermal uniformity between adjacent wells within ±0.5˚C
Range	4˚C above ambient to 42˚C

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Chamber Warm-Up Time	<30 minutes from 25˚C to 37˚C at normal operating voltage (120VAC or 220VAC)
Temperature Set Point	
Range	15.0˚C to 42.0˚C
Resolution	±0.1˚C
Repeatability	±0.3˚C
Accuracy	±0.5˚C
Regulation	±0.3˚C
Photometric Analysis Modes	Single Wavelength, Optical Density Dual Wavelength, Optical Density Kinetics, Kinetics Graphics Range Blank Pattern Set Temperature
Extended OD Range	OD range may be set to read from 0.000 to 4.000 OD
Kinetic Read Intervals	Intervals between kinetic readings are automatically controlled to maximize collection of data points during the initial linear portion of a kinetic reaction
Kinetic Automatic OD Limit	Kinetic analysis is automatically performed only on readings taken over a change of 0.200 OD from the first reading
Kinetic Analysis	Positive or negative kinetic reactions may be monitored. Reaction rates are calculated in milli OD per minute (mOD/min) and printed out in the 8 x 12 microplate format
Kinetic Graphics	Positive kinetic graphs of raw OD data plotted against the kinetic read time may be printed in the 8 x 12 microplate format. These graphs provide visual verification

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	that the rate value (mOD/min) was calculated during the initial linear portion of the kinetic reaction
Speed Read	Enables faster read cycle in endpoint mode
AUTO mix	Automatic mixing of well contents prior to a reading and between readings may be selected
User Interface	Controls on the control panel are direct, requiring no memorization of repertoires of commands to enable specific features and capabilities
Mini Manual	A built-in one-page guide to operating procedures may be printed on command
Range	Reports OD values as an integer for qualitative analysis
Blank Pattern	Blank pattern may be stored and the mean of the blank group subtracted from all 96 wells
Set Temperature	The temperature set point for the microplate chamber will meet specifications when set between 4˚C above ambient to 42˚C. The power-up default set point is 37˚C
Temperature Query	The temperature set point and chamber temperature can be displayed at the printer
Terminal Output	Data and report formats may be transmitted directly to computer terminal rather than to a printer if required
Solvent Condensation control	Ventilation of the microplate chamber prevents solvent vapors from condensing on the lenses

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Stray Light Control	Lenses above and below microplate maximize efficient use of available signal, minimize stray light. Light-tight reading chamber prevents ambient light from striking detectors during reading
Crosstalk Control	Single well sequential illumination of microplate wells eliminate well-to-well crosstalk of stray light
Drainage Channels	The drawer mechanism/reading chamber assembly is protected from accidental spillage by drainage ports
On-Board Diagnostics	Continuous on-board self diagnostics ensure proper performance of instrument
Temperature Regulation	The temperature regulation system is monitored and a warning will be sounded should a failure be detected
Dimensions	(18¼ x 16¼ x 7⅜) in
Weight	27 lbs
Operative Power	100-120,200-240Vac/50-60Hz/<200W
Operating Temperature	15˚C to 40˚C
Operating Humidity	0 to 85%
Storage Temperature	-20˚C to 65˚C

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