



DAR800TS Microplate Reader Specification

Configurations:

DAR800TS: 6- to 96-well plates, 400 to 750 nm detection, shaking

Optional Accessories:

- Gen5™ Microplate Reader and Imager Software
- Gen5™ Secure (for 21 CFR Part 11 Compliance)
- Absorbance Test Plate
- Product Qualification Package
- Printer

Specifications:

General

Detection modes: Absorbance

Read methods: End point. Kinetic, well area scanning (under computer control)

Microplate types: 6- to 384-well plates

Temperature control: To 50 °C ("I" configuration)

Shaking: Yes

Read speed: 11 secs /96 wells (sweep mode)

Software: Gen5 Reader Control Software
Gen5 Microplate Reader and Imager Software (optional)



Absorbance

Light source:	Tungsten halogen
Wavelength selection:	Filters
Wavelength range:	400 – 750 nm
	340 – 750 nm (“UV” configurations)
Dynamic range:	0 to 4.0 OD (normal and rapid read modes) 0 to 3.0 OD (sweep read mode)
Resolution:	0.001 OD (standalone mode) 0.0001 OD (via Gen5 control)
Filter wheel capacity:	5 positions
Filters supplied:	405, 450, 490, 630
	340, 405, 450, 490, 630 (“UV” configurations)

OD accuracy (96-well)	Normal read mode	$\pm 1.0\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 405 nm $\pm 2.0\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 340nm
	Rapid read mode	$\pm 2.0\% \pm 0.020$ OD from 0.000 to 2.000 OD @ 405 nm $\pm 2.5\% \pm 0.020$ OD from 0.000 to 2.000 OD @ 340nm
	Sweep read mode	$\pm 1.0\% \pm 0.020$ OD from 0.000 to 1.000 OD @ 405 nm
OD linearity (96-well)	Normal read mode	$\pm 1.0\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 405 nm $\pm 3.0\% \pm 0.010$ OD from 2.000 OD to 3.000 OD @ 450 nm $\pm 2.5\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 340nm
	Rapid read mode	$\pm 2.0\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 405 nm $\pm 2.5\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 340nm
	Sweep read mode	$\pm 1.0\% \pm 0.010$ OD from 0.000 to 1.000 OD @ 405 nm $\pm 1.0\% \pm 0.010$ OD from 0.000 to 1.000 OD @ 340 nm
OD repeatability (96-well)	Normal read mode	$\pm 0.5\% \pm 0.005$ OD from 0.000 to 2.000 OD @ 405 nm $\pm 1.5\% \pm 0.005$ OD from 0.000 to 2.000 OD @ 340nm
	Rapid read mode	$\pm 1.0\% \pm 0.010$ OD from 0.000 to 2.000 OD @ 405 nm $\pm 2.0\% \pm 0.020$ OD from 0.000 to 2.000 OD @ 340nm
	Sweep read mode	$\pm 2.0\% \pm 0.020$ OD from 0.000 to 1.000 OD @ 405 nm