

Refractometer AE-D Series



Parameters:

Measurement range	Brix 0.0~94.0%	Resolutions	(Brix) 0.1%, 0.1°C
Accuracy	(Brix) $\pm 0.1\%$ $\pm 0.3^\circ\text{C}$	Environment Temperature	0~40°C
Measurement Temperature	0~40°C (ATC)	Sample volume needed	> 0.4ml
Measure time	2S	Power Supply	18650 rechargeable battery
Protection class	IP67 for the sensor	Dim /G.W	180(W)x100(D)x55(H)mm 365g(excluding battery)

Technical Specifications:

Series	Model	Scale's Name	Scale's No.	Range	Resolution	Accuracy
Brix%	AE-D101	Brix	S01	0.0-50.0%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D102	Brix	S01	0.0-94.0%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.5290nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D103	Dextran	S01	0.0-10.6%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D104	Fructose	S01	0.0-68.9%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.5290nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D105	Glucose	S01	0.0-59.9%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.5290nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D106	Lactose	S01	0.0-16.5%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D107	Maltose	S01	0.0-15.6%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
Salinity	AE-D201 (sodium chloride NaCl)	Salinity	S01	0.0-28.0%	0.1%	$\pm 0.1\%$
		Salinity	S02	0-280‰	1‰	$\pm 1\%$
		Specific gravity	S03	1.000-1.217	0.001	± 0.001
		Refractive Index	S04	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D202 (sea water)	Salinity	S01	0-100‰	1‰	$\pm 1\%$
		Chlorinity	S02	0-57‰	1‰	$\pm 1\%$
		Specific gravity	S03	1.000-1.070	0.001	± 0.001
		Refractive Index	S04	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
Honey	AE-D301	Brix	S01	0.0-94.0%	0.1%	$\pm 0.1\%$
		Water	S02	38.0%-5.0%	0.1%	$\pm 0.1\%$
		Be'	S03	33.0-48.0	0.1	$\pm 0.1\%$
		Refractive Index	S04	1.3330-1.5290nD	0.0001nD	$\pm 0.0002\text{nD}$
Wine	AE-D401	Brix%	S01	0.0-50.0%	0.1%	$\pm 0.1\%$
		%VOLap	S02	0.0%-22.0%	0.1%	$\pm 0.1\%$
		Oe	S03	0-150	1	$\pm 1\%$
		KMW	S04	0.0-25.0	0.1	± 0.1
Clinical	AE-D501	URINE SP. G.	S01	1.000-1.050	0.001	± 0.001
		SERUM P.	S02	-0.1-12.0	0.1	± 0.1
		Refractive Index	S03	1.3330-1.4200nD	0.0001nD	$\pm 0.0001\text{nD}$
Car	AE-D601	Cleaner	S01	(0) - (-60)°C	0.1°C	$\pm 0.3^\circ\text{C}$
		Ethylene Glycol	S02	(0) - (-60)°C	0.1°C	$\pm 0.3^\circ\text{C}$
		Propylene Glycol	S03	(0) - (-70)°C	0.1°C	$\pm 0.3^\circ\text{C}$
		Battery	S04	1.000-1.500sg	0.001	$\pm 0.003\text{sg}$
	AE-D602 (Urea Tester)	Urea(NH ₂) ₂ CO	S01	0-51.0%	0.1%	$\pm 0.1\%$
		Refractive Index	S02	1.3330-1.4200nD	0.0001nD	$\pm 0.0002\text{nD}$
	AE-D603 (Engine Coolant Tester)	Ethylene Glycol	S01	0-60%	0.1%	$\pm 0.3\%$
		Ethylene Glycol(°C)	S02	(0) - (-60)°C	0.1°C	$\pm 0.3^\circ\text{C}$
		Propylene Glycol	S03	0-70%	0.1%	$\pm 0.3\%$
		Propylene Glycol(°C)	S04	(0) - (-70)°C	0.1°C	$\pm 0.3^\circ\text{C}$
	AE-D604 (Brake Fluid Tester)	DOT3	S01	(121) - (260)°C	1°C	$\pm 3^\circ\text{C}$
		DOT4	S02	(125) - (275)°C	1°C	$\pm 3^\circ\text{C}$
	Refractive Index	S03	1.3330-1.5290nD	0.0001nD	$\pm 0.0002\text{nD}$	