



# Bellingham + Stanley Digital Refractometer RFM340-M with Peltier Temperature Control and Keypad

SKU: 19-45

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[Description](#)   [Specifications](#)



Specifications	RFM330-M	RFM340-M
Scales		
Refractive Index	1.32 – 1.58	1.32 – 1.58
Sugar (°Brix)	0-100	0-100
User-defined	100	100
Resolution		
Refractive Index	0.0001 / 0.00001 (selectable)	0.000001 (selectable up to 6 d.p.)
Sugar (°Brix)	0.1 / 0.01 (selectable)	0.01/0.001 (selectable up to 3 d.p.)

Accuracy		
Refractive Index	±0.00005	±0.00002 (1.32 – 1.38 RI) ±0.00004 (1.38 – 1.58 RI)
Sugar (°Brix)	±0.04	<b>±0.010 (0 – 30 °Brix)</b> ±0.030 (30 – 100 °Brix)
Precision (Reproducibility)		
Refractive Index	± 0.00001	± 0.000005 (6 d.p.)
Sugar (°Brix)	± 0.01	± 0.005 (3 d.p.)
User Scale Library	20+ pre-programmed scales including HFCS (3), sugar (4), sucrose SG (3), NaCl, Butyro, Wine Must (5), Urine SG (3), PHR-MEAN and more; plus customer programmable user scales via PC.	
Reading Time	Minimum 4 seconds (dependant on precision required)	
Measuring Temperature Range	0°C or 10°C below ambient whichever is greater to 70°C	

Temperature Sensor Accuracy	$\pm 0.03$ °C
Sample Temperature Stability	$\pm 0.05$ °C
Temperature Compensation	5 – 80 °C
Sucrose (°Brix)	5 – 40 °C
AG Fluids	Simple coefficient (units/ °C) or polynomial function
User-defined	
Temperature Stability Checks	None/delay time/repeatability/ Smart (independently selectable by Method)
Sample Illumination	Light Emitting Diode 589nm (100,000+ hours)
Prism / Dish	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)
Prism Seal	Silicon/Resin
Interfaces	3 x USB (A), 1 x USB (B), 1 x Ethernet, RS232 via USB adaptor (optional accessory)
Power	Instrument: 24 V DC, $\pm 5\%$ , <2A External PSU: 100-240V, 50-60Hz (supplied)
Humidity Range	<90% RH (non-condensing)