



RFM300-M Series Digital Refractometers

PRECISE, TEMPERATURE CONTROLLED REFRACTOMETERS FOR FACTORIES AND LABORATORIES

A range of digital refractometers with Peltier temperature control and robust switch membrane for high precision tactile operation within demanding food, beverage & other industrial applications.

Incorporating wide beam optics and one of the flattest prism platforms on the market, RFM300-M Series refractometers are capable of measuring non-homogenous samples such as fruit juice with pulp, opaque chemical compounds and emulsions that are normally difficult to read with optical refractometers.

SMART temperature stability, RFID user clearance and application specific pre-programmed "Methods" simplify routine analyses within soft drinks, food, and industrial applications.

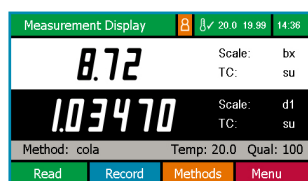
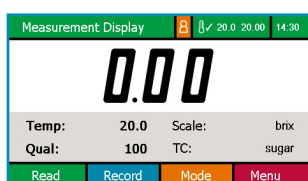
Key Features Included as Standard

- Clear 4" display with alphanumeric keypad
- Flat prism surface for easy-cleaning
- Wide beam scan for non-homogenous samples
- 3 Decimal place Brix precision (6 d.p. RI)
- RFID user clearance
- Automatic sample read





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Software Features

- Dual display (e.g. Brix / SG)
- Save over 8000 readings
- Reading, user & config audit trails
- Print to secure PDF
- USB "Back-up & clone"
- User maintenance prompts
- Remote diagnostics & control

Specifications	RFM330-M	RFM340-M
Order Code	19-35	19-45
Scales		
°Brix	0-100	0-100
Refractive Index	1.32-1.58	1.32-1.58
User Defined (RI equivalent)	100	100
Resolution		
°Brix	0.1 / 0.01	0.01/0.001
Refractive Index	0.0001 / 0.00001	0.00001 / 0.000001
Accuracy		
°Brix	±0.04	±0.010 (<30) / ±0.030 (>30)
Refractive Index	±0.00005	±0.00002 (<1.38) ±0.00004 (>1.38)
Precision (Reproducibility)		
°Brix	± 0.01	± 0.005
Refractive Index	± 0.00001	± 0.000005
Temperature Range		
Ambient	5-40 °C	
Sample	5-95 °C	
Peltier	0 °C or 10 °C below ambient whichever is greater to 70 °C	
Temperature Compensation		
Sucrose (°Brix)	5-80 °C	
AG Fluids (°Brix)	10-40 °C	
User	Simple coefficient (units/ °C) or polynomial function	
Temperature Sensor Accuracy	±0.03 °C	±0.03 °C
Temperature Stability Checks	None/Delay Time/Repeatability/Smart	
Peltier Control Stability	±0.05 °C	±0.05 °C
Humidity Range	<90% RH (Non condensing)	
Prism Seal	Silicone/Resin	Silicone/Resin
Interfaces	3 x USB (A), 1 x Ethernet, RS232 via optional USB adaptor	
Power	Instrument: 24V DC, ±5%, <2A External PSU: 100-240V, 50-60Hz (supplied)	

Order Codes

Code	Description
19-35	RFM330-M Peltier temperature controlled refractometer with latest integral 4" full colour high resolution display, robust switch membrane and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity.
19-45	RFM340-M high precision Peltier temperature controlled refractometer with latest integral 4" full colour high resolution display, robust switch membrane and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity. Three decimal place Brix precision.



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