

RFM300-M Series Refractometers

WITH PELTIER TEMPERATURE CONTROL AND ROBUST SWITCH MEMBRANE

FOR HIGH PRECISION OPERATION IN DEMANDING FOOD, BEVERAGE

& OTHER INDUSTRIAL APPLICATIONS



- 4" High definition display with robust push-button keypad for factory use
- Flat prism surface for easy-cleaning
- Wide beam scan for non-homogenous samples
- Three decimal place Brix precision* (6 d.p. RI)
- RFID user clearance
- Supports FDA regulation 21 CFR Part 11
- PHR-MEAN Method
- USB & Ethernet connectivity

The RFM300-M brings our popular RFM300+ refractometer up-to-date with a line of high precision Peltier temperature controlled benchtop refractometers.

The RFM300-M is identical in features to the recently launched RFM300-T Series in all aspects except for its tactile keypad. 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 or those digital refractometers that do not address the need to measure "difficult samples."

The new instrument's ABS case is ergonomically designed so that any spills are dealt with by its sloping shape or by the PEEK spill barrier that surrounds the shallow, easy-clean stainless steel prism dish.

SMART temperature stability, RFID user clearance and application specific pre-programmed Methods simplify routine analyses within soft drinks, food, pharmaceutical and petrochemical industries. Supplied PC software enables control via Ethernet connection so that technical support and training may be performed remotely, with measurement results being viewed and exported via USB port in csv file format for PC or LIMS as well as in Secure PDF reports.





a xylem brand

RFM300-M Series of high precision refractometers with Peltier temperature control for harsh environments

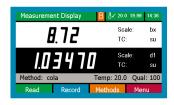














Latest Software Features

- Dual display function Brix/SG
- Save over 8000 readings
- Reading, user & config audit trails
- Print to secure PDF
- Simple USB "Back-up & Clone"
- User maintenance prompts
- Remote diagnostics & control

Specifications	RFM330-M	RFM340)-M	
Scales Refractive Index Sugar (°Brix) User Defined	1.32 - 1.58 0 - 100 100	1.32 - 1.58 0 - 100 100		
Resolution Refractive Index Sugar (°Brix)	0.00001 0.01		(selectable up to 6 d.p.) (selectable up to 3 d.p.)	
Accuracy Refractive Index Sugar (°Brix)	± 0.00005 ± 0.04	± 0.00004 ± 0.010	(1.32 - 1.38 RI) (1.38 - 1.58 RI) (0 - 30 °Brix) (30-100 °Brix)	
Precision (Reproducibility)* Refractive Index Sugar (°Brix)	± 0.00001 ± 0.01	± 0.000005	,	
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 (dep	inimum 4 seconds (dependent on precision required)		
Measuring Temperature Range	0°C or 10°C below ambie	°C or 10°C below ambient whichever is greater to 70°C		
Temperature Sensor Accuracy	± 0.03 °C			
Sample Temperature Stability	± 0.05 °C			
Temperature Compensation Sucrose (°Brix) AG Fluid User Defined	5 – 80 °C 5 – 40 °C Simple coefficient (units/	°C) or polynomi	al function	
Temperature Stability Checks	None/delay time/repeatability/Smart (independently selectable by Method)			
Sample Illumination	Light Emitting Diode 589	t Emitting Diode 589nm (100,000+ hours)		
Prism / Dish	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)			
Prism Seal	Silicone/Resin			
Interfaces	3 x USB (A), 1 x USB (B), 1 x Ethernet, 1 x Serial (RS232)			
Power	Instrument: 24 V DC, ±5%, <2A External PSU: 100-240V, 50-60Hz (supplied)			
Humidity Range	<90% RH (non condensi	ng)		

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	
22-498	Spare filters for RFM-T/M models (pack of 12)	
55-14	Dot-matrix impact printer, 24 column: Serial RS232, 230V (UK/Euro plug)	
55-16	Dot-matrix impact printer, 24 column: Serial RS232, 110V (USA plug)	
54-02	Serial interface cable for printer	



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^{*}for definitions, please visit our website