

RFM700-M Series Refractometers

EASY TO USE INSTRUMENTS WITH AUTOMATIC TEMPERATURE COMPENSATION FOR USE IN HARSH FACTORY ENVIRONMENTS



- Classic red or modern colour display
- Auto-sense "hands free" measurement
- Simple audit trail (date, time & batch no.)
- Alpha-numeric keypad for easy data entry
- USB connectivity
- Flat sapphire prism surface for easy-cleaning
- Simple operation for factory environments

RFM700 series refractometers are robust, low cost, fully automatic instruments that are ideally suited to the food, sugar and beverage industries but can also be used in many other non-food applications where temperature control is not required.

Commonly, the RFM700-M series refractometers are supplied to operate in the °Brix scale with results temperature compensated to 20°C in accordance with ICUMSA. Additional user scales provide measurement in different formats such as Refractive Index (RI) various wine, urine specific gravity & automotive scales as well as allowing custom scales to be loaded in accordance with product data.

Inherent to the robust design is a sapphire prism mounted in an easy-clean stainless steel dish and an outer casing that is sealed and shaped to withstand sample spillage and moisture ingress. This, together with the external power supply and bright 4" high definition colour display, makes the RFM700-M ideal for use in busy laboratories or harsh factory environments. The instrument can also save and/or print results and be connected to a printer or laboratory PC, with results being output in standard print, CSV or secure PDF formats.

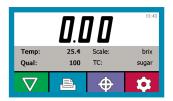
Other software features include special AG temperature compensation that facilitates a SPAN calibration when using AG calibration fluids, and a time delay before reading, ensuring reliable results every time.





RFM700-M Series of refractometers with automatic temperature compensation







Specifications	RFM712-M	RFM732-M	RFM742-M
Scales Refractive Index Sugar (°Brix) User Defined	1.32 - 1.42 0 - 54 100	1.32 - 1.54 0 - 100 100	1.32 - 1.54 0 - 100 100
Resolution Refractive Index Sugar (°Brix)	0.0001 0.1	0.0001 0.1	0.00001 0.01
Accuracy Refractive Index Sugar (°Brix)	± 0.0001 ± 0.1	± 0.0001 ± 0.1	± 0.00004 ± 0.04
Precision (Reproducibility)* Refractive Index Sugar (°Brix)	± 0.00005 ± 0.05	± 0.00005 ± 0.05	± 0.00001 ± 0.01
User Scale Library	20+ pre-programmed scales including HFCS (3), Sugar (4), Honey, NaCl, Wine Must (5), Urine SG (3), Glycol (2), Urea, FSII and more; plus customer programmable user scales via PC.		
Reading Time	Minimum 4 seconds (dependent on precision required)		
Temperature Control	None - Temperature Compensation (ATC)		
Measuring Temperature Range	5 – 80 °C		
Temperature Sensor Accuracy	± 0.05 °C		
Temperature Compensation Sucrose (°Brix) AG Fluid User Defined	5 - 80 °C 5 - 40 °C Simple coefficient (uni	ts/°C) or polynomial fun	ction
Temperature Stability Checks	Programmable delay ti	me	
Sample Illumination	Light Emitting Diode 589nm (100,000+ hours)		
Prism / Dish	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)		
Prism Seal	Silicone/Resin		
Interfaces	1 x USB (A), 1 x USB (B adaptor) - Ethernet & Serial (RS2	232) via optional
Power	Instrument: 24 V DC, = External PSU: 100-240		
Humidity Range	<90% RH (non conder	nsing)	

Latest Software Features

- Easy to use Installation Wizard
- 7 Menu languages
- Save over 8000 readings
- Print to secure PDF
- Onboard user scale library
- User maintenance prompts

Order Codes

Code	Description
19-00	RFM712-M refractometer with latest integral 4" full colour display, robust switch membrane and USB connectivity. Supplied with instruction manual and certificate of conformity.
19-10	RFM732-M refractometer with latest integral 4" full colour display, robust switch membrane and USB connectivity. Supplied with instruction manual and certificate of conformity.
19-20	RFM742-M refractometer with latest integral 4" full colour display, robust switch membrane and USB connectivity. Supplied with instruction manual and certificate of conformity.



a **xylem** brand

International

Longfield Road Tunbridge Wells Kent, TN2 3EY United Kingdom Tel: +44 (0) 1892 500400 Fax: +44 (0) 1892 543115

sales.bs.uk@xyleminc.com

United States

90 Horizon Drive Suwanee GA 30024 United States of America Tel: 678 804 5730 Fax: 678 804 5729 sales.bs.us@xyleminc.com

www.bellinghamandstanley.com

^{*}for definitions, please visit our website