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Lab Solutions



RFM700-M Series Digital Refractometers

EASY TO USE ATC REFRACTOMETERS FOR USE IN HARSH 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.

Ideal for use in busy laboratories or harsh factory environments.

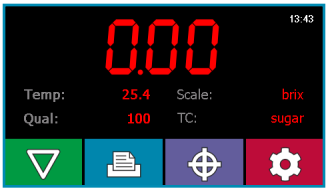
Key Features Included as Standard

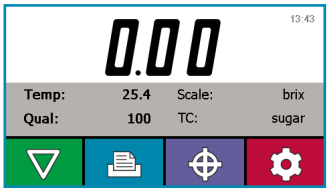
- Classic red or modern colour display
- Auto-sense "hands free" measurement
- Simple audit trail (date, time & batch no.)
- Alpha-numeric keypad for easy data entry
- Flat sapphire prism surface for easy-cleaning
- USB connectivity

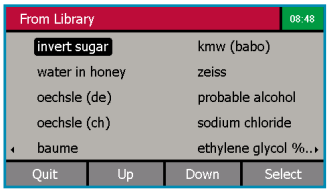
Bellingham + Stanley

a xylem brand

RFM700-M Digital Refractometers ROBUST & SIMPLE TO USE DIGITAL REFRACTOMETERS







Software Features

- Choice of 7 languages
- Save over 10,000 readings
- Print to secure PDF
- Onboard user scale library
- User maintenance prompts
- Easy to use Installation Wizard

Specifications	RFM732-M	RFM742-M
Order Code	19-10	19-20
Scales		
°Brix	0–100	0–100
Refractive Index	1.33–1.54	1.33–1.54
User Defined (RI equivalent)	2	2
Resolution		
°Brix	0.1	0.01
Refractive Index	0.0001	0.00001
Accuracy		
°Brix	±0.1	±0.04
Refractive Index	±0.0001	±0.00005
Precision (Reproducibility)		
°Brix	± 0.05	± 0.01
Refractive Index	± 0.00005	± 0.00001
Temperature Range		
Ambient	5–40 °C	
Sample	5–95 °C	
Peltier	ATC only	
Temperature Compensation		
Sucrose (°Brix)	5–80 °C	
AG Fluids (°Brix)	10–40 °C	
User	Simple coefficient (units/ °C) or polynomial function	
Temperature Sensor Accuracy	±0.05 °C	
Temperature Stability Checks	None/Delay Time (programmable in seconds)	
Peltier Control Stability	ATC only	
Humidity Range	<90% RH (non condensing)	
Prism Seal	Silicone/Resin	
Interfaces	1 x USB (A), 1 x Ethernet, RS232 via optional USB adaptor	
Power	Instrument: 24 V DC, ±5%, <2A External PSU: 100-240V, 50-60Hz (supplied)	

Order Codes

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

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