xylem
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.

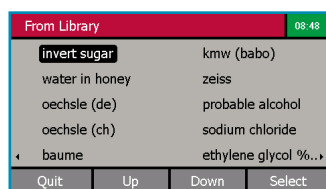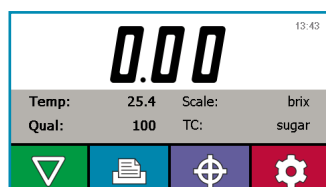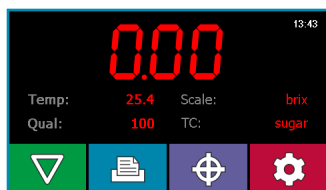Ideal for use in busy laboratories or harsh factory environments.

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

BS **Bellingham + Stanley**

a **xylem** brand

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

Specifications	RFM712-M	RFM732-M	RFM742-M
Order Code	19-00	19-10	19-20
Scales			
°Brix	0–50	0–100	0–100
Refractive Index	1.33–1.42	1.33–1.54	1.33–1.54
User Defined (RI equivalent)	2	2	2
Resolution			
°Brix	0.1	0.1	0.01
Refractive Index	0.0001	0.0001	0.00001
Accuracy			
°Brix	±0.1	±0.1	±0.04
Refractive Index	±0.0001	±0.0001	±0.00005
Precision (Reproducibility)			
°Brix	± 0.05	± 0.05	± 0.01
Refractive Index	± 0.00005	± 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	±0.05 °C	±0.05 °C
Temperature Stability Checks	None/Delay Time (programmable in seconds)		
Peltier Control Stability	ATC only	ATC only	ATC only
Humidity Range	<90% RH (non condensing)		
Prism Seal	Silicone/Resin	Silicone/Resin	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)		

Software Features

- Choice of 7 languages
- Save over 8000 readings
- Reading, user & config audit trails
- Print to secure PDF
- Onboard user scale library
- User maintenance prompts
- Easy to use Installation Wizard

Order Codes

Code	Description
19-00	**RFM712-M refractometer** with 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 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.

Xylem Lab Solutions

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