Refraktometer RFM732-M - digital automatic
Order code: **0507.1910**

Cena bez DPH	7.410,00 Eur
Price with VAT	8.966,10 Eur

Parameters

Types of refractometers	Automatical digital refractometers
What do I measure	Sugar % (°Brix), Refractive Index RI
Serie	RFM700-M
Scale	Sugar % (°Brix) / Refractive Index (RI)
Range	0 - 100 / 1,32 - 1,54
Graduation	0.1 / 0.0001
Temperature compensation	Yes
Display	Digital
Number of ranges	2
Quantitative unit	ks

Refractometers for Food and Beverage Applications

RFM700-M 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, for example measuring sugar (°Brix) concentrations in the food processing industry.

Automatic Temperature Control

Sample temperature stability is also important. The RFM700-M Series allows the input of a delay time that forces the operator to wait for countdown before reading, ensuring reliable results every time.

Date, time, batch & operator identifiers can be entered via the alphanumeric keypad or in the case of batch numbers, via a barcode reader connected to the instruments USB port. Over 8000 results can be saved for download. The instrument can also be connected to a printer or laboratory PC, with results being output in printed or CSV formats or as a Secure PDF.

Another new feature for the RFM700-M Series is the instruments ability to sense a sample being placed on the prism so that it can make a measurement "hands-free." Push-button or continuous read functions are also selectable.

Key Features

- Auto-sense "hands free" measurement
- Classic red or new full colour M-Model display
- Simple audit trail (date, time & batch no.)
- Alpha-numeric keypad for easy data entry
- USB connectivity
- Flat sapphire prism surface for easy-cleaning
- Simple opperation for factory environments
- Selectable read type: Continual, single, intelligent auto-sense

Software Features

- Easy to use Installation Wizard
- 7 Menu languages
- Brix and R.I. scale as standard
- Multiple user defined scales
- On-board clock
- Batch and Quality numbers
- Supervisor PIN

Specifications	RFM712-M	RFM732-M	RFM742-M
Scales Refractive Index Sugar (°Brix) User-defined	1.32 – 1.42 0-50 100	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	±0.00005 **±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 (optional time delay)		
Temperature Control	None – Automatic Temperature Compensation (ATC)		
Temperature Compensation	ICUMSA, AG, User, none		
Sample Temperature Range	0-100 °C		
Measuring Temperature Range	5-40 °C		
Temperature Sensor Accuracy	± 0.03 °C		
Sample Temperature Stability	± 0.05 °C		
Temperature Compensation Sucrose (°Brix) AG Fluids User-defined	5 – 80 °C 5 – 40 °C Simple coefficient (units/ °C) or polynomial function		
Temperature Stability Checks	Delay in seconds or none		
Sample Illumination	Light Emitting Diode 589nm (100,000+ hours)		

Prism / Dish	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)
Prism Seal	Silicon/Resin
Interfaces	1 x USB (A), 1 x USB (B)
Power	Instrument: 24 V DC, ±5%, <1A External PSU: 100-240V, 50-60Hz (supplied)
Humidity Range	<90% RH (non-condensing)