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Refractometer RFM330-M Peltier temperature controlled refractometer Order code: 0507.1935



Cena bez DPH	11.260,00 Eur
Price with VAT	13.624,60 Eur
Parameters	
Гуреs of refractometers	Automatical digital refractometers
Nhat do I measure	Sugar % (°Brix), Refractive Index RI
Serie	RFM300-M
Scale	Sugar % (°Brix) / Refractive Index (RI)
Range	0 - 100° / 1,32 - 1,58
Graduation	0.1 / 0.0001
Temperature compensation	Yes
Display	Digital
Number of ranges	2
Quantitative unit	ks

NEW for 2017, the RFM330-M brings popular 300+ refractometer up-to-date with a line of high precision Peltier temperature controlled benchtop refractometers. Featuring wide beam optics and a durable membrane touch-button interface with 4" high resolution display, the RFM300-M Series is ideally suited for use in demanding applications within the food, beverage, chemical and industrial industries.

Building upon our legacy

RFM300-M refractometers are the latest in a line of RFM models designed specifically for use in harsh environments and builds upon Bellingham + Stanley's 100 year legacy of quality instrumentation. Incorporating wide beam optics, 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 instrument's new case is ergonomically designed so that any spills are dealt with by the sloping shape of the case or by the PEEK spill barrier that surrounds the shallow, easy-clean stainless steel prism dish.

Temperature Control

A single large fan helps to regulate temperature as part of the Peltier control system. Operating at low speeds creates less noise whilst still offering the same excellent temperature control you'd expect to find in a Bellingham + Stanley refractometer. Positioned at the base of the unit, the RFM300-M's fan is designed to be protected from harsh environments, whilst still being easily accessible for maintenance.

Durable display & RFID technology

Whilst we believe that the touchscreen technology seen on our RFM-T Series refractometers is a class-leading interface, sometimes our customers want something a little more... tactile. That's where the RFM300-M comes in.

With a durable membrane made from chemical and scratch resistant polyester, the RFM300-M offers a more tactile approach, allowing users to navigate menus at the touch of a button.

The large, clear buttons and 4" high resolution screen help facilitate operation in factory environments, and combined with our latest GUI, help the operator quickly manoeuvre through the menus. On-screen prompts support simple operation such as Method loading, calibration and routine maintenance guiding even the newest member of your staff.

RFID swipe technology comes as standard, providing clearance and a log of operator and configuration functions; especially useful when being used in FDA regulated environments operating in accordance with 21 CFR Part 11, or where good practice is adopted, e.g. as part of HACCP.

Methods and measuring

Measurements with the RFM300-M are made through a familiar measuring mode or by way of a simple Methods system with one-touch configuration of scale, temperature and data storage, with up to 8000 results being saved alongside pre-set limits that can be used as an audit tool Methods may be user-defined or selected from the on-board library. As an example, the 'Coffee Solids' Method allows for coffee type and daily offsets to be inputted, so that the %TS achieved using the refractometer in the factory match the results of the laboratory tests used to configure the freeze-drying process, producing instant coffee powder.

RFM300-M Refractometer back-up and cloneRFM300-M Series refractometers all come with software for your PC so that when connected to a network via Ethernet connection, the instrument can be remotely operated by an external service or support centre for diagnostics or even be used for training or installation qualification.

USB ports are standard enabling connection to peripherals including external keyboards, barcode readers or memory sticks. Memory sticks can be used to transfer secure files or as part of a "Back-up & Clone" process that allows fast data back-up or configuration interchange across a number of instruments.

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)	0.0001 0.1	0.000001 (selectable up to 6 d.p.) 0.01/0.001 (selectable up to 3 d.p.)
Accuracy Refractive Index	±0.0001	±0.00002 (1.32 - 1.38 RI) ±0.00004 (1.38 - 1.58 RI)
Sugar (°Brix)	±0.1	±0.010 (0 - 30 °Brix) ±0.030 (30 - 100 °Brix)
Precision (Reproducibility) Refractive Index Sugar (°Brix)	± 0.00005 ± 0.05	± 0.000005 (6 d.p.) ± 0.005 (3 d.p.)
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 (dependant on precision re	quired)
Measuring Temperature Range	0°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 Fluids User-defined	5 - 80 °C 5 - 40 °C Simple coefficient (units/ °C) or polynomial function
Temperature Stability Checks	None/delay time/repeatability/ Smart (independently selectable by Method)
Sample Illumination	Light Emitting Diode 589nm (100,000+ hours)
Prism / Dish	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)
Prism Seal	Silicon/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-condensing)

Order Code	Description
0507.1935	RFM330-M Peltier temperature controlled refractometer with latest integral 4" full colour high resolution display, robust switch membrane keypad and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity.
0507.1945	RFM340-M high precision Peltier temperature controlled refractometer with latest integral 4" full colour high resolution display, robust switch membrane keypad and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity