



# RFM960-C Refractometer

WIDE MEASURING RANGE WITH PELTIER TEMPERATURE CONTROL FOR FLAVOURS, PHARMACEUTICAL, CHEMICAL, PETROCHEMICAL & RESEARCH USE



**NEW**

**100  
YEARS  
CENTENARY  
EST. 1915**

The new RFM960-C refractometer incorporates the latest instrumentation technology, including a new 4" high-definition colour display, providing a user interface that's easily configured by the operator via intuitive set-up menus. Additionally, over 4,000 results can be saved or exported as secure PDF files via USB or Ethernet connection.

SMART thermal control rapidly equalizes the sample temperature and displays the result only when pre-set criteria has been reached, such as sample temperature stability being held to within  $\pm 0.02$  °C for a number of consecutive readings.

RFID swipe technology is standard on the RFM960-C providing user clearance and record of operator and configuration functions, which is especially useful when being used in FDA-controlled environments operating in accordance with 21 CFR Part 11, or where good practice is adopted, e.g. as part of HACCP.

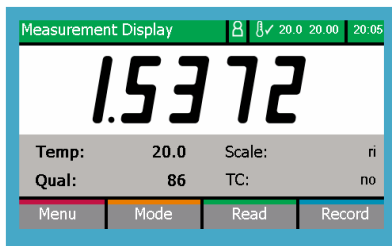
Measurements with the RFM960-C are made through a normal measuring mode or by way of a simple Methods system with one-touch configuration of scale, temperature and data storage, with results being saved alongside pre-set limits that can be used as an audit tool. Methods may be user-defined or selected from the on-board library, such as the PHR-MEAN method that allows a number of individual readings from a single batch of pharmaceutical product to be measured with the resultant mean being displayed and recorded in accordance.

- Wide Measuring range: 1.30 - 1.70 RI
- Four decimal place resolution
- Peltier temperature controlled
- High definition 4" full colour display
- US/EP/BP/JP compliant
- Supports FDA regulation 21 CFR Part 11
- PHR-MEAN & ASTM D 2140 Methods



a xylem brand

# RFM960-C Peltier Controlled Refractometer



Date	Time	Batch	Operator	Reading	Temp	Qual	Settings
5/03/15	20:17:10	prod15p	mik	1.4691	20.0	89	ri no
5/03/15	20:16:37	prod15	mik	1.4690	20.0	89	ri no
5/03/15	20:15:25	zero	mik	1.3329	20.0	100	ri no
5/03/15	20:12:28	-	-	1.5372	20.0	85	ri no
5/03/15	20:11:44	prod8	am	1.5372	20.0	85	ri no
5/03/15	20:11:19	sam73	mik	1.5372	20.0	85	ri no
5/03/15	20:10:40	sam76	mik	1.5372	20.0	85	ri no
5/03/15	20:09:51	-	-	1.5372	20.0	85	ri no
5/03/15	20:09:41	-	-	1.5372	20.0	85	ri no

- Copy PDFs
- Move PDFs
- Backup
- Clone From Backup
- Update Software

## Latest Software Features

- Save over 4000 readings
- Reading audit trail
- User audit trail
- Configuration audit trail
- Print to secure PDF
- Simple USB "Back-up & Clone"
- User maintenance prompts

## Specifications

## RFM960-C

<b>Scales</b> Refractive Index Sugar (°Brix) User Defined	1.30 - 1.70 0 - 100 100
<b>Resolution</b> Refractive Index Sugar (°Brix)	0.0001 0.1
<b>Accuracy</b> Refractive Index Sugar (°Brix)	± 0.0001 ± 0.1
<b>User Scale Library</b>	20+ pre-programmed scales including HFCS (3), sugar (4), sucrose SG (3), PHR-MEAN, Urea and more; plus customer programmable user scales via PC.
<b>Reading Time</b>	Minimum 4 seconds
<b>Measuring Temperature Range</b>	10°C below ambient to 80°C
<b>Temperature Sensor Accuracy</b>	± 0.03°C
<b>Sample Temperature Stability</b>	± 0.02°C
<b>Temperature Compensation</b> Sucrose (°Brix) AG Fluid User Defined	5 - 80 °C 5 - 40 °C Simple coefficient (units/°C) or polynomial function
<b>Temperature Stability Checks</b>	None/delay time/repeatability/ Smart (independently selectable by Method)
<b>Sample Illumination</b>	Light Emitting Diode 589nm (100,000+ hours)
<b>Prism / Dish</b>	Artificial Sapphire / Stainless Steel 316 / PEEK (spill barrier)
<b>Prism Seal</b>	Kalrez®
<b>Interfaces</b>	3 x USB (A), 1 x USB (B), 1 x Ethernet, 1 x Serial (RS232)
<b>Power</b>	Instrument: 24 V DC, ±5%, <2A External PSU: 100-240V, 50-60Hz (supplied)
<b>Humidity Range</b>	<90% RH (non condensing)

## Order Codes

Code	Description
22-65	<b>RFM960-C Peltier temperature controlled refractometer</b> with latest integral 4" full colour HD display and USB/LAN connectivity. Supplied with pack of three RFID tags, instruction manual and certificate of conformity.
22-465	Validation documentation (only) for RFM960-C IQ/OQ/PQ within pharmaceutical environs
55-14	Dot-matrix impact printer, 24 column: Serial (RS232), 230V (UK/Euro plug)
55-16	Dot-matrix impact printer, 24 column: Serial (RS232), 110V (USA plug)
54-02	Serial interface cable for printer
26-292	Spare filters - standard type (pack of 20)

Celebrating 100 years at the forefront of instrument design and manufacture





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.