

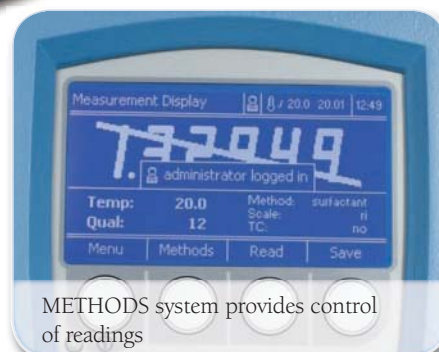
**Refractometers with Peltier Temperature Control for Petrochemical, Pharmaceutical and Other Applications Requiring a Wide Measuring Range.**



Shallow prism dish for easy cleaning



RFID tag for rapid clearance of users



METHODS system provides control of readings



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## RFM900 Refractometers

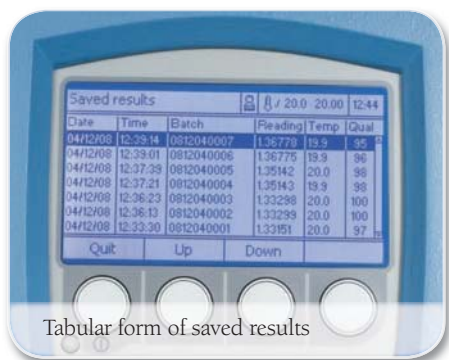
Designed as a replacement for the RFM800 series, the new RFM900 series of refractometers combine latest opto-electronic principles with durability and ease of use. RFM900 refractometers feature RFID (radio frequency identification) that allows users to identify themselves by simply swiping a tag across the top of the instrument to enable measurement and in certain cases, access to the configuration menu.

A new low profile sample dish and non-contact presser makes sample application and cleaning much easier than with its predecessor. Readings can be taken automatically on the replacement of the presser and up to 700 stored results can be easily viewed in tabular form on the instrument display. Peltier temperature control and intelligent temperature management ensures readings are only taken when the sample and refractometer temperatures are both stable.

The instruments conform to a number of industry measurement standards and offer operational features that allow use in an environment controlled by FDA regulation 21 CFR Part 11. The use of a Kalrez® gasket and sapphire prism facilitates placement in the harshest measurement environments including those in the pharmaceutical, petrochemical, aroma, flavour, fragrance and other high RI sectors.

Flowcell versions are available on request.

Specifications	RFM960	RFM970
Scales		
Refractive Index	1.30 – 1.70	1.30 – 1.70
Sugar (°Brix)	0-100	0-100
User-defined	Yes – 100	Yes – 100
Resolution		
Refractive Index	0.0001	0.00001
Sugar (°Brix)	0.1	0.01
Accuracy		
Refractive Index	±0.0001	±0.00002
Sugar (°Brix)	±0.1	±0.02
Presser Type	Polyacetal	Polyacetal
Temperature Compensation		
Sucrose (°Brix)	5 – 80 °C	
AG Fluids	Simple coefficient (units/ °C) or polynomial function	
User-defined		
Reading Time	Minimum 4 seconds	
Temperature Stability Checks	None/delay time/repeatability/Smart (independently selectable by Method)	
Measuring Temperature Range	0 °C or 10 °C below ambient whichever is the greater to 80 °C	
Temperature Sensor Accuracy	± 0.03 °C	
Sample Temperature Stability	± 0.05 °C	
Power Supply	External 100-240V, 50-60Hz. Supplied with instrument	



Tabular form of saved results



Moisture resistant services panel & instrument housing

- Wide RI range
- Peltier temperature control
- SMART temperature stability
- RFID user identity
- Easy clean prism
- Auto read function
- 700 stored results
- Tabular form of saved results
- Display language options
- Barcode reader facility

Conforms to GLP, OIML; ASTM D 5006, 1747, 2140, 1218; USP/EP/BP; and operational requirements of FDA regulation 21 CFR Part 11.

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### Physical Specifications

Prism	Artificial Sapphire
Prism Dish	316 Stainless Steel / PEEK
Prism Seal	Kalrez®
Interfaces	1 Parallel (printer), 2 x Serial (RS232)
Sample Illumination	Light Emitting Diode 589nm
Temperature Control	Peltier


### Order Code Description

Order Code	Description
22-60	RFM960 Refractometer including power supply and instructions
22-70	RFM970 Refractometer including power supply and instructions
22-80	Enhanced Protection Pack
55-250	Waterproof Power Supply Unit
26-155	Splash Cover

Bellingham + Stanley Ltd. pursue a policy of continuous product development and improvement and, as such, information given on this Data Sheet may be updated or withdrawn without notice.



**Bellingham  
+ Stanley**



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