

RFM900-T Series Refractometers

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



• 7" High definition touchscreen display

• Wide Measuring range: 1.30 - 1.70 RI

• Six decimal place precision

• Peltier temperature control stability: ±0.02°C

• US/EP/BP/JP compliant

• Supports FDA regulation 21 CFR Part 11

• PHR-MEAN & ASTM D 2140 Methods

• USB & Ethernet connectivity

Bellingham + Stanley has been manufacturing refractometers for over a Century and the latest refractometers build on that legacy.

Featuring a wide measuring range up to 1.70 RI and capable of measuring to six decimal places, the RFM900-T Series refractometers are ideally suited for use in the chemical, petrochemical, pharmaceutical, flavours and fragrance industries as well as for academic research.

The instrument's new ABS case is ergonomically designed so that any spills are dealt with by its sloping shape or by the PEEK spill barrier that surrounds the shallow, easy-clean stainless steel prism dish. The prism dish is shaped to hold sufficient sample for measurement whilst retaining a large enough surface area for rapid temperature stabilisation. A Kalrez® gasket has been chosen as the prism seal due to its impermeable nature to most chemicals.

Inherent to the new design is the new high definition, capacitive touchscreen display that not only facilitates operation in factory environments, even when operating whilst wearing gloves, but also is the centrepiece of the new software that helps the operator quickly manoeuvre through the user and configuration menus. On-screen graphical prompts also support simple operation such as Method loading, calibration and routine maintenance.

SMART temperature stability, RFID user clearance and application specific pre-programmed Methods simplify routine analyses within pharmaceutical and petrochemical industries. Supplied PC software facilitates control via Ethernet connection so that technical support and training may be performed remotely.



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RFM900-T Series of high precision refractometers with 7" touchscreen and Peltier temperature control













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Batch: I	m0026		
Results Time	Reading	Temp	Quality
08:25:14	1.465189	20.0	93
08:25:38	1.465189	20.0	93
08:26:06	1.465172	20.0	91
08:26:24	1.465168	20.0	93
08:26:38	1.465168	20.0	92
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Latest Software Features

- Save over 4000 readings
- Reading, user & config audit trails
- Print to secure PDF
- Simple USB "Back-up & Clone"
- User maintenance prompts
- Remote diagnostics & control

Specifications	RFM960-T	RFM970-T
Scales Refractive Index Sugar (°Brix) User Defined	1.30 - 1.70 0 - 100 100	1.30 - 1.70 0 - 100 100
Resolution Refractive Index Sugar (°Brix)	0.0001 0.1	0.000001 (selectable up to 6 d.p.) 0.01 / 0.001
Accuracy Refractive Index Sugar (°Brix)	± 0.0001 ± 0.1	± 0.00002 ± 0.02
Precision Refractive Index Sugar (°Brix)	± 0.00005 ± 0.05	± 0.000005 (6 d.p.) ± 0.005
User Scale Library	20+ pre-programmed scales including HFCS (3), sugar (4), sucrose SG (3), ASTM D 2140, PHR-MEAN, Urea and more; plus customer programmable user scales via PC.	
Reading Time	Minimum 4 seconds (dependant on precision required)	
Measuring Temperature Range	0°C or 10°C below ambie	ent whichever is greater to 80°C
Temperature Sensor Accuracy	± 0.03°C	
Sample Temperature Stability	± 0.02°C	
Temperature Compensation Sucrose (°Brix) AG Fluid User Defined	5 – 80 °C 5 – 40 °C Simple coefficient (units/	°C) or polynomial function
Temperature Stability Checks	None/delay time/repeata (independently selectabl	
Sample Illumination	Light Emitting Diode 589	9nm (100,000+ hours)
Prism / Dish	Artificial Sapphire / Stain	less Steel 316 / PEEK (spill barrier)
Prism Seal	Kalrez®	
Interfaces	3 x USB (A), 1 x USB (B),	1 x Ethernet, 1 x Serial (RS232)
Power	Instrument: 24 V DC, ±5 External PSU: 100-240V	
Humidity Range	<90% RH (non condensi	ng)

Order Codes

Code	Description
19-60	RFM960-T Peltier temperature controlled refractometer with latest integral 7" full colour touchscreen, high definition display and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity.
19-70	RFM970-T Peltier temperature controlled refractometer with latest integral 7" full colour touchscreen, high definition display and USB/LAN connectivity. Supplied with pack of two RFID tags, instruction manual and certificate of conformity.
22-498	Spare filters for RFM-T models (pack of 12)
22-467	Validation documentation (only) for RFM900-T IQ/OQ/PQ within pharmaceutical environments
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
55-86	USB mini keyboard



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