



# RFM900-T Series Digital Refractometers

TOUCHSCREEN REFRACTOMETERS WITH WIDE MEASURING RANGE & TEMPERATURE CONTROL

**Digital touchscreen refractometers which feature Peltier temperature control, a wide measuring range up to 1.70 RI and capable of measuring to six decimal places.**

RFM900-T Series refractometers are ideally suited for use in chemical, petrochemical, pharmaceutical, flavours and fragrance industries.

The instrument's 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.

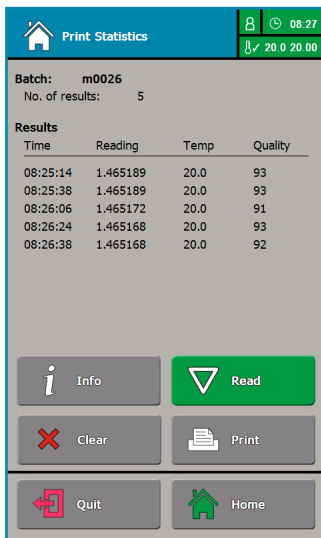
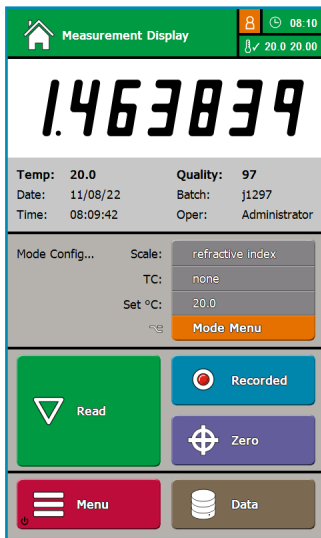
## Key Features Included as Standard

- 7" High definition touchscreen display
- Wide measuring range: 1.30 - 1.70 RI
- 6 Decimal place precision
- Peltier temperature control stability up to  $\pm 0.01$  °C
- PHR-MEAN & ASTM D 2140 Methods
- Wetted components to USP Class VI
- USP/EP/BP/JP compliant
- Supports FDA 21 CFR Part 11





# RFM900-T Digital Refractometers TEMPERATURE CONTROL & WIDE MEASURING RANGE



Specifications	RFM960-T	RFM970-T	RFM990-T (AUS)
Order Code	19-60	19-70	19-73
<b>Scales</b>			
°Brix	0-100	0-100	0-100
Refractive Index	1.30-1.70	1.30-1.70	1.33-1.70
User Defined (RI equivalent)	100	100	0-40 (% Urea m/m)
<b>Resolution</b>			
°Brix	0.1	0.01/0.001	0.01 (% Urea m/m)
Refractive Index	0.0001	0.000001	0.000001
<b>Accuracy</b>			
°Brix	±0.1	±0.02	±0.02 (% Urea m/m)
Refractive Index	±0.0001	±0.00002	±0.00002
<b>Precision (Reproducibility)</b>			
°Brix	±0.05	±0.005	±0.005 (% Urea m/m)
Refractive Index	±0.00005	±0.000005	±0.000005
<b>Temperature Range</b>			
Ambient	5-40 °C		
Sample	5-95 °C		
Peltier	0 °C or 10 °C below ambient whichever is greater to 80 °C (for AUS32 performance 20 °C is mandatory)		
<b>Temperature Compensation</b>			
Sucrose (°Brix)	5-80 °C		
AG Fluids (°Brix)	10-40 °C		
User	Simple coefficient (units/ °C) or polynomial function		
Temperature Sensor Accuracy	±0.03 °C	±0.03 °C	±0.02 °C (at 20 °C)
Peltier Control Stability	±0.05 °C	±0.05 °C	±0.01 °C (at 20 °C)
Temperature Stability Checks	None/Delay Time/Repeatability/Smart (independently selectable by Method)		
Humidity Range	<90% RH (Non condensing)		
Prism Seal	Kalrez® (FDA/USP Class VI compliant)		
Interfaces	3 x USB (A), 1 x Ethernet, RS232 via optional USB adaptor		
Power	Instrument: 24V DC, ±5%, <2A External PSU: 100-240V, 50-60Hz (supplied)		

## Order Codes

Code	Description
19-60	<b>RFM960-T Peltier temperature controlled refractometer</b> with 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	<b>RFM970-T high precision Peltier temperature controlled refractometer</b> with 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. Three decimal place Brix precision.

### Bellingham + Stanley, a Xylem brand

Xylem, Longfield Road  
Tunbridge Wells  
TN2 3EY  
United Kingdom

### Bellingham + Stanley (USA)

Xylem  
1700/1725 Brannum Lane  
Yellow Springs  
OH 45387

## Software Features

- Dual display (e.g. RI / SG)
- Save over 8000 readings
- Reading, user & config audit trails
- Print to secure PDF
- USB "Back-up & clone"
- User maintenance prompts
- Remote diagnostics & control



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