



# RFM300-T Series Digital Refractometers

PRECISE, TEMPERATURE CONTROLLED REFRACTOMETERS WITH TOUCHSCREEN INTERFACE

**A range of touchscreen enabled digital refractometers with Peltier temperature control for high precision operation in demanding food, beverage & other industrial applications.**

Incorporating wide beam optics and one of the flattest prism dishes on the market, RFM300-T 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. Inherent to the modern design is a high definition, capacitive touchscreen that facilitates use in most environments, even when operating whilst wearing gloves.

SMART temperature stability, RFID user clearance and application specific pre-programmed "Methods" simplify routine analyses within soft drinks, food, pharmaceutical and industrial applications.

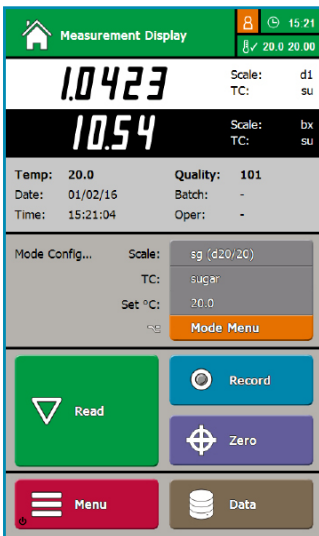
## Key Features Included as Standard

- 7" High definition touchscreen display
- Flat prism surface for easy-cleaning
- Wide beam scan for non-homogenous samples
- 3 Decimal place Brix precision (6 d.p. RI)
- RFID user clearance
- PHR-MEAN Method
- USP/EP/BP/JP compliant
- Supports FDA 21 CFR Part 11





# RFM300-T Digital Refractometers TOUCHSCREEN UI FOR FACTORIES & LABORATORIES



## Software Features

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

Specifications	RFM330-T	RFM340-T
Order Code	19-30	19-40
<b>Scales</b>		
°Brix	0-100	0-100
Refractive Index	1.32-1.58	1.32-1.58
User Defined (RI equivalent)	100	100
<b>Resolution</b>		
°Brix	0.1 / 0.01	0.01/0.001
Refractive Index	0.0001 / 0.00001	0.00001 / 0.000001
<b>Accuracy</b>		
°Brix	±0.04	±0.010 (<30) / ±0.030 (>30)
Refractive Index	±0.00005	±0.00002 (<1.38) ±0.00004 (>1.38)
<b>Precision (Reproducibility)</b>		
°Brix	± 0.01	± 0.005
Refractive Index	± 0.00001	± 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 70 °C	
<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
Temperature Stability Checks	None/Delay Time/Repeatability/Smart	
Peltier Control Stability	±0.05 °C	±0.05 °C
Humidity Range	<90% RH (Non condensing)	
Prism Seal	Silicone/Resin	Silicone/Resin
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
19-30	<b>RFM330-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.
19-40	<b>RFM340-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.

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