

Refractometers

Automatic Digital RFM900-T Series



BELLINGHAM
& STANLEY

High performance instruments providing fast, accurate and reliable measurements. Choice of Refractive index (R.I.), % sugar (Brix) or user-defined ranges and resolution.

- ◆ Built in temperature regulation via peltier heating/cooling modules and precise, electronic control by "Intelligent Thermal Management"
- ◆ Separate, multiple probe, temperature monitoring and compensation of the optical and detector systems
- ◆ Conform to GLP, OIML, ASTM 05006, 1747, 2140, 1218, USP/EP/BP and meet security and technical requirements of U.S. FDA Regulation 21 CFR Part 11
- ◆ Highly stable optical system
- ◆ RFID (radio frequency i.d.) tag swipe system to identify specific users, enable measurement or reconfigure settings
- ◆ 700 result memory with tabular readout
- ◆ Powerful microprocessor controller with touchscreen colour graphics display
- ◆ Low-profile sample dish and non-contact presser enable easy cleaning
- ◆ Artificial sapphire prism with Kalrez seal set in 316 stainless steel and PEEK dish
- ◆ Parallel printer and dual RS232 interface for connection to the users' PC or another instrument
- ◆ Modern design
- ◆ Software features include:
 - Multiple product configuration presets
 - Single/continuous read modes
 - Reading log
 - Reading tolerance limits
 - Result verification
 - Calibration log
 - Calibration check/report
 - PIN password control
 - Batch/operator i.d.
 - Data export to PC
 - On-line help

Automatic Digital Refractometers RFM900-T series

As described. Supplied with instruction manual and external power adapter for 100 to 240V 50/60Hz single phase supplies.

- RE290-40** Model RFM960-T
- RE290-50** Model RFM970-T

Catalogue No.		RE290-40	RE290-50
Model		RFM960-T	RFM970-T
Ranges	R.I.	1.30 to 1.70	1.30 to 1.70
	% sugar (Brix)	0 to 100	0 to 100
	User-defined*	Yes (up to 100)	Yes (up to 100)
Resolution	R.I.	0.0001	0.00001
	% sugar (Brix)	0.1	0.01
Accuracy	R.I.	±0.0001	±0.00002
	% sugar (Brix)	±0.1	±0.02
Auto. temp compensation — both models	% sugar (Brix) User-defined* ATC ref. temp.	5 to 80°C Simple coefficient (units/°C) or polynomial function Selectable	
Reading time	seconds	Adjustable for accuracy (typically 4 to 10 seconds) — both models	
Temperature measuring range	°C	Ambient less 10 to 80 — both models	
Temperature accuracy	°C	±0.03 — both models	
Sample temperature stability	°C	±0.02 — both models	
Interfaces		1 x Parallel, 2 x RS232 (serial) — both models	
Sample illumination		Light emitting diode (589nm) — both models	
Overall W x D x H	mm	187 x 337 x 211 — both models	
Weight	kg	4.6 — both models	

*User-defined scales: available from the Bellingham and Stanley library of existing scales (at extra charge) or created by the user from experimental data.

Accessories

- RE284-32** Paper rolls for RE284-30
- RE284-30** Printer, CBM910
- RE284-34** Ribbon cartridge, black for RE284-30
- RE284-20** Printer cable for all RFM-series refractometers



RE290



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