

# Refractometers & Polarimeters

Bellingham + Stanley has been manufacturing refractometers and polarimeters for 100 years. The B+S network of distributors has been carefully selected to provide technical support both before and after the sale and the range of products available is summarised in this brochure.

## RFM700-M Series Refractometers



Robust, high quality, low cost instruments designed specifically for factory and laboratory use. RFM700 models provide Brix and other scales up to two decimal places without the need for temperature control.

RFM700 refractometers are ideal for use in sugar, beverage, food and wine applications.

## RFM300 Series Refractometers

The new RFM300 Series refractometers feature a flat prism dish, wide refractive index range and Peltier temperature control; making them ideal for use in wet factory environments and the laboratory alike.

Special attention has been paid to the Peltier control system. Samples of different temperature are quickly stabilised and when using the Smart temperature stability mode where results are only shown when both the temperature and readings are within predefined limits. Results are clearly displayed on the instrument's full colour display, whilst the instrument is easily configured via its Methods system. Over 8000 readings may be stored within the instrument memory together with date, time & batch number to form an audit trail.



## ADP600 Series Polarimeter

The ADP600 Series of Peltier temperature controlled polarimeters are designed to meet the needs of the most demanding applications within the chemical, pharmaceutical & food sectors making it an ideal instrument for scientists wishing to research the characteristics of chiral compounds.

The ADP600 Series comprises of six models varying only by the wavelength of measurement, including the highly sensitive ultra-violet region. All ADP600 series Polarimeters are capable of measuring to four decimal places at constant temperatures of temperatures of 20 & 25 °C, set by an integral Methods system accessed via a high definition touch-screen user interface.

The ADP600 Series polarimeters are compliant with all elements of Pharmacopeia and are suitable for use in high security environments operating in accordance with FDA regulation 21 CFR part 11.



## RFM900-T Series Refractometers

Offering a wide measuring range (1.30-1.70 RI), shallow prism dish and Peltier temperature control, RFM900-T refractometers are suitable for use in aroma, fragrance, flavour, petrochemical, chemical, and pharmaceutical industries as well as institutes of technology.

For pharmaceutical applications, RFM900-T refractometers comply with the operational requirements of FDA regulation 21 CFR Part 11, USP/EP/BP and feature RFID tags for rapid identification and clearance of operators.

RFM900-T refractometers also conform to ASTM D 5006, 1747, 2140 & to become ASTM D 5006, 1747, 2140 & 1218 for the petrochemical industry.



## Hand held Refractometers

Being manufactured in the UK and sealed to IP66, the Eclipse range of hand held refractometers offer reliability and ease of use. E-line refractometers are available in various scale ranges and offer a lower cost alternative to the Eclipse, whilst the digital OPTi series provide temperature compensated readings without the need for optical measurement.



## ADP400 Series Polarimeters

Single wavelength, 3-decimal place polarimeters for sugar, food, chemical and pharmaceutical use; the ADP450 with on-board Peltier temperature control and the ADP430 without. Both models meet the minimum requirement of Pharmacopeia and comply with the operational requirements of FDA regulation 21 CFR Part 11.



## Abbe Refractometers



The low cost Abbe 5 provides general-purpose measurement at an affordable price, whilst the high accuracy 'dispersion' instruments satisfy the highest demands in industry.



## ADS Saccharimeter

Designed specifically for use in the sugar marketplace, ADS Saccharimeters are low cost instruments that may be used with flow tubes to allow rapid measurement in accordance with ICUMSA.



## Calibration Materials

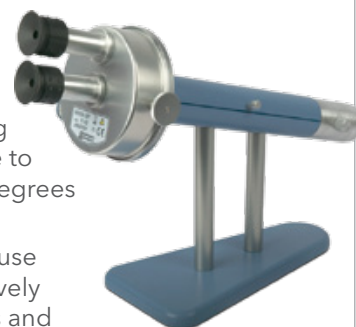
B+S offer a number of high accuracy calibration standards, some traceable to NIST and manufactured under the guidelines of BS ISO 17025, suitable for calibrating refractometers and polarimeters. Refractometer standards have a shelf life of 12-months whilst Quartz Control Plates are used for calibrating polarimeters and saccharimeters.



## Model D7 Polarimeter

The Model D7 is a high quality optical polarimeter fitted with an integral LED light source and interference filter providing readings over the full circle to better than 0.05° angular degrees and 0.1°Z.

The instrument is ideal for use in laboratories with a relatively low throughput of samples and especially as a teaching tool in colleges and universities.



For further information contact:

[www.bellinghamandstanley.com](http://www.bellinghamandstanley.com)

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## Instrument Selection Guide

	Portable	Fruit	Beverage	Food	Sugar	Confectionery	Edible Oil	Petrochem	Pharma	Industrial	Education	Polymers	Solids
Eclipse/E-line	✓	✓	✓	✓	✓	✓							
OPTi	✓	✓	✓	✓	✓	✓	✓	✓					
Abbe 5		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓
Abbe 60 ED/LR								✓	✓		✓		✓
RFM700		✓	✓	✓	✓	✓							
RFM300		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
RFM900-T								✓	✓		✓		
ADP400				✓	✓	✓			✓		✓		
ADP600					✓				✓		✓		