

R refractometers

Portable Analogue



B&S Portable Refractometers, Eclipse

For the rapid quality control checking of solutions and semi-solids with applications in a wide range of industries.

Eclipse range

Robust metal casing with focusing eyepiece, zero adjustment for sample temperature and sealed prism with transparent flap allowing easy cleaning.

Range

Sugar scale*

RE106-17 0 to 15% x 0.1%

RE106-32 0 to 30% x 0.2%

RE106-52 0 to 50% x 0.5%

RE106-62 28 to 65% x 0.2%

RE106-68 45 to 80% x 0.2%

RE106-72 72 to 95% x 0.2%

Starch scale

RE106-85 0 to 30% x 0.2%

Salinity scale

RE106-93 0 to 28% x 0.1%

* All sugar scales are based on % w/w sucrose in water.

Model Abbe 5



Budget-level refractometer, ideal for wide ranging refractive index (R.I.) measurement, or where sample throughput is relatively low, particularly suited to educational demonstrations.

- ◆ R.I. and Brix scales indicated
- ◆ Uses ambient white light as a light source
- ◆ Digital sample temperature readout
- ◆ Water-jacketed prism block with inlet and outlet ports

Model	Abbe 5
Scales	R.I. 1.30 to 1.70 Brix 0 to 95°
Resolution	R.I. 0.00005 Brix 0.25°
Temp. display x resolution °C	+5 to +70 x 0.1
Power supply	1 x 1.5V AA battery (temp. display only)
Overall W x D x H	mm 120 x 220 x 310
Weight	kg 2.6

Abbe 5 Refractometer

As described. Supplied with glass calibration plate, contact liquid, instruction manual, battery and rigid carrying case. Requires a source of white light (natural or lamp) for operation.

RE160-10 Abbe 5

BL610-15 Spare battery, 1.5V AA (1 required)

Abbe B&S 60 Series



For refractive index measurements on a wide variety of materials including sugars, confectionery, pharmaceuticals, fats and oils.

- ◆ Enclosed glass scale calibrated to 0.001 R.I. with estimation to 0.0001
- ◆ Externally mounted LED light source with wavelength compensation device is used to 'achromatise' to 589.3nm
- ◆ Hinged prism box with water jacket and built-in temperature probe
- ◆ Built-in digital temperature readout with LCD
- ◆ LED scale illuminator
- ◆ Low voltage external power supply
- ◆ Flow cell accessory

Abbe Refractometers, 60 series

As described. Scale illumination by long-life LED light source. Prism temperature is monitored by a temperature probe mounted in the prism block and displayed by a built-in digital readout. A water jacket around the prism block with inlet and outlet ports allows temperature control using accessory external thermostatic circulators. An externally mounted, LED light source illuminates the sample and a wavelength compensation device is used to 'achromatise' to the mean sodium wavelength (589.3nm) required for readings. Both models have an additional sugar scale. Overall 180 x 250 x 280mm W x D x H. Weight 5kg. Supplied with a 12V external power supply requiring a 110, 230V 50/60Hz single phase supply.

	R.I.	Scales % Sugar (Brix)
RE200-22	1.3 to 1.74	0 to 95 x 0.5
RE200-25	1.3 to 1.535	0 to 50 x 0.2 and 50 to 95 x 0.1

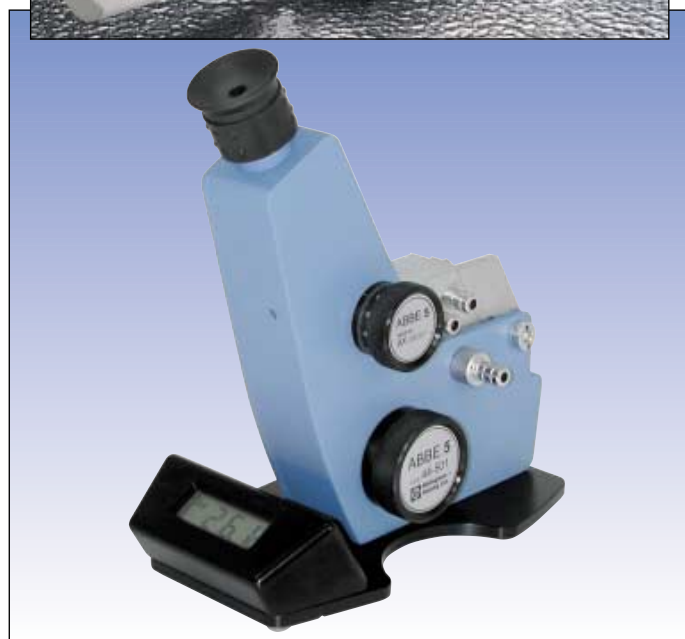
Accessory

Flow cell, stainless steel. For repetitive sampling or continuous flow requirements.

RE204-12 Flow cell



RE106



RE160-10



RE200-20

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