DR Digital Hand Refractometers

The DR range of low cost digital hand refractometers provide temperature compensated sugar measurements at the touch of a button, eliminating operator error often associated with optical refractometers. The instruments are small and robust, allowing use in the field or laboratory alike. Typical applications include use in the beverage, sugar, agricultural, industrial and food sectors.

DR refractometers are fully inspected by Bellingham + Stanley Ltd. prior to shipment and all models carry a 12-month warranty. All instruments are supplied with instruction manual, soft carrying case and Certificate of Conformity.

There are a number of models to choose from depending on the measurement range and application.

Common Specifications

Order code	Description
Resolution (°Brix* / Refractive Index)	0.1 / 0.0001
Accuracy (°Brix* / Refractive Index)	±0.2 / ±0.0003
ATC*	To 20 °C
Working Temperature Range	5 – 40 °C
Measurement Time	<0.5 seconds
Battery	9V (MN1604, 6LR61 or PP3)
Dimensions	L 183mm x D 55mm x H 46mm

% weight sucrose in water

Product Specifications and Order Codes

Model	Code	°Brix Range	Refractive Index Range
DR103	44-901	0-35	1.3330 – 1.3900
DR103L	44-903	0-45	1.3330 – 1.4098
DR112	44-904	28-65	1.3800 – 1.4535
DR122	44-905	60-92	1.4400 – 1.5230

Wine Model

Model	Code	Scale	Range	Resolution	Accuracy
DR401	44-906	Mass SW % (°Brix)	0-35	0.1	±0.2
		Probable Alcohol	0-22°	0.1	±0.2
		Oechsle (D)	0-150°	1	±1
		KMW (Babo)	0-25°	0.1	±0.2
DR402	44-907	Mass SW % (°Brix)	0-35	0.1	±0.2
		Probable Alcohol	0-22°	0.1	±0.2
		Oechsle (CH)	0-150°	1	±1
		Baumé	0-18°	0.1	±0.2

D=German Data CH=Swiss Data

Bellingham+Stanley Ltd operates a Quality Management System complying with BS EN ISO 9001:2000 (Certificate No. LRQ 0963791).

Bellingham+Stanley Ltd pursues a policy of continuous product development and improvement, and, as such, information given on this Data Sheet may be updated or withdrawn without notice.

CE These products comply with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC

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