

DR301-95, DR201-95, DR101-60 | DIGITAL HAND-HELD REFRACTOMETERS

For mobile use -
with a large measurement range!

Quick, precise measurement results simplify incoming goods inspection, optimise quality assurance and reduce work processes. The devices can easily be carried on inspection rounds, as they are lightweight and fit into any lab coat pocket.



Fields of application

Determination of mixing ratios, quality and quantity inspection in the following industries:

- Beverages
- Food
- Sugar / sweeteners
- Chemicals
- Flavours
- Petrochemicals
- Cosmetics / hygiene
- Metalworking
- Pharmaceuticals
- Water / effluent
- Education / research

Special features

- Large measuring range
- High precision
- Calibrated with water
- Display of measurement results in various units
- Automatic temperature compensation
- Robust casing
- Little weight

	DR301-95	DR201-95	DR201-95-OE	DR101-60	DR101-60-OE
Measurement range	1.3330 – 1.5318 nD 0 – 95 %Brix	1.3330 – 1.5318 nD 0 – 95 %Brix	0 – 250 °Oechsle 0 – 95 %Brix	1.3330 – 1.4419 nD 0 – 60 %Brix	0 – 150 °Oechsle 0 – 60 %Brix
Accuracy	±0.00015 nD ±0.1 %Brix	±0.0003 nD ±0.2 %Brix	±1 °Oechsle ±0.2 %Brix	±0.0005 nD ±0.25 %Brix	±1 °Oechsle ±0.2 %Brix
Resolution	0.0001nD 0.1 %Brix	0.0001nD 0.1 %Brix	1 °Oechsle 0.1 %Brix	0.0001nD 0.1 %Brix	1 °Oechsle 0.1 %Brix
Temperature measurement	5 – 40 °C 41 – 104 °F	0 – 40 °C	0 – 40 °C	0 – 40 °C	0 – 40 °C
Temperature accuracy	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C	±0.5 °C
Temperature compensation	5 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C	10 – 40 °C
Prism	optical glass				
Housing	Plastic				
Dimensions in cm	18.0 x 10.0 x 6.0	13.0 x 8.0 x 4.0		11.0 x 6.2 x 3.2	11.0 x 6.2 x 3.2
Weight	500 g	200 g		160 g	160 g
Power supply	9 V Battery, (Adaptor available separately)	1.5 V Battery		1.5 V Battery	1.5 V Battery

DR301-95

The digital handheld refractometer DR301-95 has more functions than a simple handheld refractometer and at the same time is more cost-effective than a desktop unit. Besides the refractive index, sugar and salt scales, up to two other user-defined scales can be programmed. To do this, the handheld refractometer can be connected to a PC via a serial interface. The software supplied with it allows results to be managed and printed out. While the instrument can be operated as a mobile unit with a 9 V block battery, the optionally available power supply unit turns the DR301-95 into a small laboratory refractometer. The sample plate is made of stainless steel and is so flat that it can be cleaned quickly and easily. The instrument is calibrated simply with distilled water and has an optional temperature compensation feature. For incoming goods control applications, an upper and lower tolerance alarm can be entered.



DR301-95



DR201-95

DR201-95 and DR201-95OE

The DR201-95 is a compact digital handheld refractometer which eliminates any user-related reading errors of manual handheld refractometers. Specially developed for fast and easy quality control and process control, it has a wide measuring range for a refractive index scale and a sugar scale. One DR201-95 can thus often replace several existing instruments. For wine-growing, a special model is available with an Oechsle scale instead of a sugar scale. Both instruments are low-maintenance and are calibrated simply with distilled water. The 1.5 V battery lasts for over 1000 measurements.

DR101-60 und DR101-60-OE

As an entry-level model in digital refractometry, the DR101-60 covers many areas of application where the wide measurement range of the DR201-95 is not required. It offers excellent value for money, in terms of both procurement and operation. Calibration is also with distilled water. The waterproof case allows the DR101-60 to be rinsed under running water. This digital handheld refractometer also has an automatic temperature compensation feature, of course.



DR101-60