

Handheld refractometer - Overview technical data; scales; measurement ranges & accuracy



Our high quality devices differ mainly in the selectable scales, e.g. for the determination of the salt content, water content in honey, serum protein content, Oechsle, Brix and potential alcohol content as well as ethylene- and propylene glycol content. No manual conversion is required thanks to the scales and application errors are ruled out. The majority of our handheld refractometers are equipped with an automatic temperature compensation. The measured values are therefore already corrected to 20 °C when taking a reading.

Order number/device model	Scales	Measurement Range	Measuring accuracy
HRB10-T	 Scale: Brix 	 Measurement Range: 0–10 %Brix 	 Measuring accuracy: ±0.1 %Brix
HRB18-T	 Brix 	• 0–18 %Brix	■ ±0.1 %Brix
HRB32-T	 Brix 	• 0-32 %Brix	■ ±0.2 %Brix
HRB62-T	• Brix	• 28–62 %Brix	• ±0.2 %Brix
HRB92-T	 Brix 	• 58–92 %Brix	■ ±0.5 %Brix
	 Baumé 	■ 38–43 °Bé	■ ±0.5 °Bé
	Water content in honey	12–27 % Water content in honey	 ±0.5 % Water content in honey
HRB90	 Brix (with thermometer 6–36 °C) 	• 0–90 %Brix	■ ±0.2 %Brix
HRH30 -T	 Water content in honey 	 12-30 % Water content in honey 	 ±0.1 % Water content in honey
HRND	 Determination of refractive index (with thermometer 6–36 °C) 	• 1.3330-1.5170	• ±0.0005
HRS10-T	 Salinity (NaCl) 	• 0-10 %	• ±0.1 %
	 Specific gravity 	■ 1.000-1.070	• ±0.001
HRS28-T	 Salinity (NaCl) 	• 0-28 %	• ±0.2 %
HRM18-T	 Determination of refractive 	• 1.3330-1.3600	• ±0.0005
	 Serum protein 	• 0–12 g/dl	■ ±0.2 g/dl
	 Specific gravity of urine (UG) 	• 1.000–1.050 UG	■ ±0.002 UG
HRO32-T	 Brix 	• 0–32 %Brix	■ ±0.2 %Brix
	 Oechsle 	• 30–130 °Oe	■ ±1 °Oe
	 Potential alcohol content 	 4.4–19 % alcohol 	 ±0.1 % alcohol
HRKFZ-T	 Ethylene and propylene glycol content (antifreez) 	▪ -50–0 °C	▪ ±5 °C
	 Battery acid 	 1.10–1.30 g/cm³ 	 ±0.01 g/cm³
HRKFZG-T	 Battery fluid 	 1.10–1.40 g/cm³ 	• ±0.01 g/cm ³
	• G11/12 & G13	▪ -50–0 °C	• ±1 °C
	 Windshield wiper water (ethanol & isopropanol) 	▪ -40–0 °C	• ±5 °C



Order number	Handheld refractometer			
Order number: HRB10-T - Handheld refractometer with Brix scale for measurement range 0 - 10 %Brix.				
Scale: Brix Length:19 cm		HRB10-T		
Order number: HRB18-T - Handheld refractometer with Brix scale for measurement range 0 - 18 %Brix				
Scale: Brix Length:19 cm		HRB18-T		
Order number: HRB32-T - Handheld refractometer with Brix scale for measurement range 0 - 32 %Brix.				
Scale: Brix Length:17 cm		HRB32-T 90		
Order number: HRB62-T - Handheld refractometer with Brix scale for measurement range 28 - 62 %Brix.				
Scale: Brix Length:15.5 cm		HRB62-T		











