

TECHNICAL DATA – DIGITAL REFRACTOMETERS

	DR6000	DR6100	DR6200	DR6300	DR6000-T
SCALES	Refractive index (nD) concentration of sucrose, glucose, fructose and invert sugar [%Brix], User-defined				
MEASUREMENT RANGE	nD 1.3200–1.5800 0–95%Brix	nD 1.3200–1.7000 0–95%Brix	nD 1.32000–1.58000 0–95%Brix	nD 1.32000–1.70000 0–95%Brix	nD 1.3200–1.5800 0–95%Brix
ACCURACY	nD ±0.0001 ±0.1%Brix		nD ±0.00002 ±0.02%Brix		nD ±0.0001 ±0.1%Brix
RESOLUTION	nD 0.0001 0.1%Brix		nD 0.00001 0.01%Brix		nD 0.0001 0.1%Brix
MEASUREMENT PERIOD	approx. 4 s				
MEASUREMENT PRISM	Sapphire				
LIGHT SOURCE	LED				
WAVELENGTH	589 nm				
TEMPERATURE CONTROL					
TEMP. CONTROL RANGE	Without a sample temperature control, you can connect a thermostat for the temperature control				
ACCURACY OF TEMP. CONTROL					
TEMPERATURE COMPENSATION	Can be activated (ICUMSA or freely definable)				
TEMPERATURE MEASUREMENT	With integrated temperature sensor Pt100				
TEMPERATURE MEASUREMENT RANGE	10–80 °C				
TEMP. MEASUREMENT ACCURACY	±0.1 °C				
TEMP. MEASUREMENT RESOLUTION	0.1 °C				
METHODS	A practically unlimited number of methods can be set				
ADJUSTMENT	Automatic (menu-guided)				
HOUSING	Aluminum cast, powder-coated				
CONTROL	5.7"-TFT touch-screen, 640 x 480 Pixel				
INTERFACES	USB, RS-232, Ethernet				
OPERATING VOLTAGE	90–240 V, 47–63 Hz				
POWER CONSUMPTION (MEASUREMENT OPERATION)	25 W				
POWER CONSUMPTION (MAX.)	75 W				
DIMENSIONS (W X H X D)	215 mm x 150 mm x 345 mm				
WEIGHT	5 kg				

DR6100-T
DR6200-T
DR6300-T
DR6000-TF
DR6100-TF
DR6200-TF
DR6300-TF

Refractive index (nD) concentration of sucrose, glucose, fructose and invert sugar [%Brix], User-defined		
nD 1.32000–1.70000 0–95%Brix	nD 1.32000–1.58000 0–95%Brix	nD 1.32000–1.70000 0–95%Brix
nD ±0.0001 ±0.1%Brix	nD ±0.00002 ±0.02%Brix	
nD 0.0001 0.1%Brix	nD 0.00001 0.01%Brix	
approx. 4 s		
Sapphire		
LED		
589 nm		
With integrated Peltier temperature control		
10–80 °C		
±0.1 °C		
Can be activated (ICUMSA or freely definable)		
With integrated temperature sensor Pt100		
10–80 °C		
±0.1 °C		
0.1 °C		
A practically unlimited number of methods can be set		
Automatic (menu-guided)		
Aluminum cast, powder-coated		
5.7"-TFT touch-screen, 640 x 480 Pixel		
USB, RS-232, Ethernet		
90–240 V, 47–63 Hz		
40 W		
75 W		
215 mm x 150 mm x 345 mm		
5 kg		

Refractive index (nD) concentration of sucrose, glucose, fructose and invert sugar [%Brix], User-defined			
nD 1.3200–1.5800 0–95%Brix	nD 1.3200–1.7000 0–95%Brix	nD 1.32000–1.58000 0–95%Brix	nD 1.32000–1.70000 0–95%Brix
nD ±0.0001 ±0.1%Brix		nD ±0.00002 ±0.02%Brix	
nD 0.0001 0.1%Brix		nD 0.00001 0.01%Brix	
approx. 4 s			
Sapphire			
LED			
589 nm			
With integrated Peltier temperature control			
10–80 °C			
±0.1 °C			
Can be activated (ICUMSA or freely definable)			
With integrated temperature sensor Pt100			
10–80 °C			
±0.1 °C			
0.1 °C			
A practically unlimited number of methods can be set			
Automatic (menu-guided)			
Aluminum cast, powder-coated			
5.7"-TFT touch-screen, 640 x 480 Pixel			
USB, RS-232, Ethernet			
90–240 V, 47–63 Hz			
45 W			
75 W			
215 mm x 150 mm x 345 mm			
5.3 kg			