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
MEASUREMENT 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	Without a sample temperature control, you can connect a thermostat for the temperature control				
TEMP. CONTROL RANGE					
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)				
CONTROL	5.7"-TFT touch-screen, 640 x 480 Pixel				
HOUSING	Aluminum cast, powder-coated				
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
Refractive index (nD) concentration of sucrose, glucose, fructose and invert sugar [%Brix], User-defined		
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)		
5.7"-TFT touch-screen, 640 x 480 Pixel		
Aluminum cast, powder-coated		
USB, RS-232, Ethernet		
90–240 V, 47–63 Hz		
40 W		
75 W		
215 mm x 150 mm x 345 mm		
5 kg		

DR6000-TF	DR6100-TF	DR6200-TF	DR6300-TF
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)			
5.7"-TFT touch-screen, 640 x 480 Pixel			
Aluminum cast, powder-coated			
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			