

TECHNICAL DATA – DIGITAL REFRACTOMETERS

	DR6000	DR6100	DR6000-T	DR6100-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 1.3200–1.5800 0–95%Brix	nD 1.3200–1.7000 0–95%Brix
MEASUREMENT ACCURACY	nD ± 0.0001 ± 0.1 %Brix		nD ± 0.0001 ± 0.1 %Brix	nD ± 0.0001 ± 0.1 %Brix
RESOLUTION	nD 0.0001 0.1 %Brix		nD 0.0001 0.1 %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 tempe- rature control		With integrated Peltier temperature control	
TEMP. CONTROL RANGE			10–80 °C	
ACCURACY OF TEMP. CONTROL			± 0.1 °C	
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	7.0" - capacitive touch-screen, 800 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		40 W	
POWER CONSUMPTION (MAX.)	75 W			
DIMENSIONS (W X H X D)	215 mm x 150 mm x 345 mm			
WEIGHT	5 kg			

DR6200-T**DR6300-T**

Refractive index (nD) concentration of sucrose, glucose, fructose and invert sugar [%Brix], User-defined	
nD 1.32000–1.58000 0–95%Brix	nD 1,32000–1,70000 0–95 %Brix
nD ±0.00002 ±0.02%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)	
7.0" - capacitive touch-screen, 800 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)			
7.0" - capacitive touch-screen, 800 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			