

L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION



**SCHMIDT
HAENSCH**
innovators by tradition since 1864

VariRef Series

Refractometer

The next generation



SPECIFICATIONS	VariRef C	VariRef B	VariRef A
Measuring scales	Refractive Index (RI), Sucrose (% Brix) Standard scales included, freely definable scales		Refractive Index (RI), Sucrose (% Brix), USG
Measuring range	1.3200 - 1.5800 RI / 100% Brix	1.29000 - 1.58000 RI / 100% Brix	1.320000 - 1.580000 RI / 100% Brix
Resolution	0.0001 RI / 0.05% Brix	0.00001 RI / 0.01% Brix	0.000001 RI / 0.001% Brix
Precision	± 0,0001 RI* / ± 0.05% Brix*	± 0,00002 RI* / ± 0.02% Brix*	± 0,00002 RI* / ± 0.02% Brix*
Repeatability	± 0.0001 RI / ± 0.05% Brix	± 0.00002 RI / ± 0.02% Brix	± 0.000005 RI / ± 0.006% Brix
Ambient temperature	+ 10 °C to + 40 °C		
Temperature measurement	Pt 1000 sensor		
Temperature range	5 °C to 80 °C	5°C to 100 °C	20 °C (others upon request)
Temperature resolution	0.01 °C		
Temperature precision	± 0.03 °C *		
Measurement mode	Single sample or flow through measurement (with optional compartment door)		
Prism	Sapphire	Sapphire / YAG	Sapphire
Light source / wavelength	LED, interference filter 589 nm		
Display	None, 5" or 7" Touchscreen, 800 x 480 Pixel		
Operation	Touchscreen**, Keyboard***, Mouse***, Barcode Reader***, Remote via PC/Tablet/Smartphone***		
Interfaces	Ethernet 10/100/1000, RS232, SH connector, USB, WLAN**, Modbus**, Canbus**, Profibus**		
Conformity	International Pharmacopoea, ASTM, AOAC, DIN, FDA, ICUMSA and others		
Highlights	Modularity; user friendliness; fast temperature control; easy cleaning; special covered version; the self-checking capabilities for cleanliness, environment temperature effects, calibration and more result in a virtually maintenance free product, 21 CFR part 11 ready; ELN; LIMS ready		
Dimensions	With Display: 310 x 220 x 235 mm (W x D x H) / Without Display: 310 x 220 x 150 mm (W x D x H)		

* Standard conditions (589 nm, $t_s=20^{\circ}\text{C}$, $t_a=23^{\circ}\text{C}$)
 ** Optional
 *** Not included in delivery

Combining over 150 years of experience with the endless strive for innovation

The VariRef possesses the well-established flat and easy to clean Schmidt + Haensch sample room. When dealing with sticky, hard to clean or hazardous materials we offer you special cover versions to ensure proper sampling.

The new double isolated peltier systems allows fastest and precise temperature control. The newly developed ATC (Ambient T-Control) takes

