

**L** LABORATORY

**P** PROCESS

**S** SOFTWARE

**A** AUTOMATION



**SCHMIDT  
HAENSCH**  
innovators by tradition since 1864

# VariDens Series

## Density Meter

Part of the modular concept  
with connectivity to  
refractometer & polarimeter



SPECIFICATIONS		VariDens C	VariDens B
Measuring range		0 - 3 g/cm <sup>3</sup>	
Temperature range		10 - 95 °C* (regulated Peltier thermoelement)	
Pressure range		0 to 10 Bar, (0 to 145 psi)	
Density	Accuracy	± 0.0001 g/cm <sup>3</sup>	± 0.00005 g/cm <sup>3</sup>
	Resolution	0.0001 g/cm <sup>3</sup>	0.00001 g/cm <sup>3</sup>
	Reproducibility	± 0.0002 g/cm <sup>3</sup>	± 0.00002 g/cm <sup>3</sup>
Temperature	Accuracy	± 0.05 °C	± 0.03 °C
	Resolution	0.01 °C	0.001 °C
	Reproducibility	± 0.02 °C	± 0.01 °C
Wetted parts		Borosilicate glass, PTFE	
Bubble detection		Yes (combined: visual-electronic)	
Drying		Integrated air pump	
Temperature compensation		Yes	
Minimum sample amount		Approx. 1.5 ml	
Measuring time per sample**		< 10 sec	< 30 sec
Display		None or 7" touchscreen, 800 x 480 Pixel	
Interfaces		Ethernet 10/100/1000, RS232, SuH-Connector, USB, WLAN***, Modbus***, Canbus***, Profibus***	
Ambient conditions		Temperature 10 °C to 35 °C, Humidity < 85% not condensing	
Power supply		VAC 90-265; 50/60 Hz; 150 VAm <sub>ax</sub>	
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)	
Standards		International Pharmacopoeia, ASTM, AOAC, DIN, FDA, ICUMSA and others	
Highlights		Modularity; user friendliness; fast temperature control; easy cleaning; virtually maintenance free product, 21 CFR part 11 conform; ELN; LIMS ready	

\* Valid for ambient temp. = 20 °C

\*\* After temperature stabilisation

\*\*\* Optional

### Typical application of the model

- Beverages
- Environmental
- Semi-Conductor
- Biotechnological industry
- Chemical industry
- Cosmetic industry
- Food industry
- Medical industry
- Petroleum industry
- Pharmaceutical industry
- Sugar industry

