

**L** LABORATORY

**P** PROCESS

**S** SOFTWARE

**A** AUTOMATION



**SCHMIDT  
HAENSCH**  
innovators by tradition since 1864

# VariDens Series

## Density Meter

The benchtop density meter with proven oscillating U-tube principle, offering precise and reliable density and concentration measurements



21 CFR  
Part 11   
COMPLIANCE *on request*

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)	
Specifications		
Accuracy	± 0.0001 g/cm <sup>3</sup> ±	± 0.00005 g/cm <sup>3</sup>
Reproducibility	0.0001 g/cm <sup>3</sup>	± 0.00002 g/cm <sup>3</sup>
Resolution	0.0001 g/cm <sup>3</sup>	0.00001 g/cm <sup>3</sup>
Temperature		
Accuracy	± 0.05 °C	± 0.03 °C
Reproducibility	± 0.02 °C	± 0.01 °C
Resolution	0.01 °C	0.01 °C
Temperature stabilization time	25 °C to 20 °C, ± 0.01 °C in 18 minutes*	
Wetted parts	Borosilicate glass, PTFE	
Bubble detection	Yes (combined: visual-electronic)	
Drying	Integrated air pump	
Temperature compensation	Yes	
Minimum sample volume	1.5 ml	
Measuring time per sample**	< 10 sec	< 10 sec
Display	7" touchscreen***, 800 x 480 Pixel	
Interfaces	Ethernet 10/100/1000, RS232, USB, WLAN***	
Ambient conditions	Temperature 10 °C to 35 °C, Humidity < 85 % not condensing	
Power	VAC 90-265; 50/60 Hz; 150 W max	
Conformity	International Pharmacopoeia, ASTM, AOAC, DIN, 21 CFR part 11, ICUMSA and others	
Dimensions	With display: 430 x 300 x 235 mm (w x d x h) / without display: 430 x 300 x 150 mm (w x d x h)	
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

