

# 3P densi 100



THE DENSITY ANALYSIS OF POWDERS,  
FOAMS AND BULK SOLIDS

HIGH DEGREE OF AUTOMATIZATION

FAST RESULTS FOR TRUE AND  
SKELETAL DENSITY

## FAST AND ACCURATE DENSITY ANALYSIS BY INTELLIGENT INSTRUMENT DESIGN

PARTICLE CHARACTERIZATION

POWDER ANALYSIS

PORE DETERMINATION



Characterization of  
particles • powders • pores

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The 3P densi 100 is a compact and automated density analyzer for powders and solids as well as for the characterization of foamed materials. By use of these pycnometers, the sample gets filled in the sample cell; sample preparation takes place in continuous or pulsed gas flow or optionally under vacuum. The rinsing, measurement and possible repeat measurement are operated automatically. Repeat measurements optionally are effected either by pre-setting a user specified tolerance (auto-stop) or a user specified number of runs.



### EASY OPERATION

by 10 inch full touch screen.  
No separate computer is required.

### PRECISE AND ACCURATE

The sample chamber is a metal block and the pressure transducer is zeroed before every expansion, not just when a fresh sample is initialized. The appropriate expansion chamber is automatically employed.

### PRE-CALIBRATED, RE-CALIBRATE ANY TIME

All pycnometers are factory calibrated and ready to use right out of the box. Re-calibration is easy to do with the supplied set of reference volume spheres.

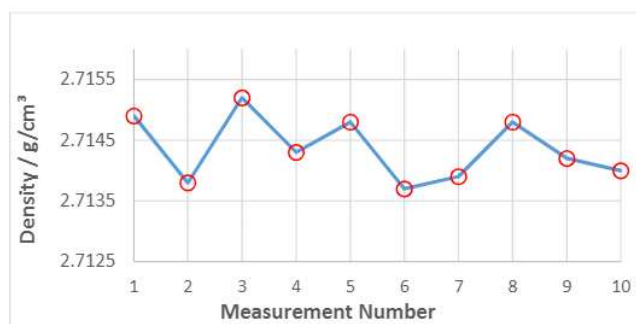
### FOCUS ON REPRODUCIBILITY

The pycnometers retain volume calibrations in memory even when powered down – regular adjustment is not required. The system temperature is displayed in reports for verification of suitable and stable measurement conditions.

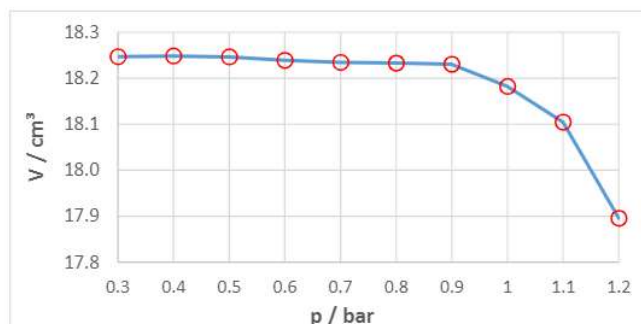
- HIGH-THROUGHPUT  
ANALYSIS WITH FAST  
MEASUREMENTS

- HIGH DEGREE OF  
AUTOMATIZATION

### DENSITY:



### COMPRESSIBILITY:



### APPLICATIONS

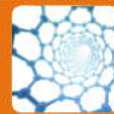
Catalysts



Glas &amp; Ceramics



Synthetic Adsorbents



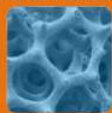
Graphite &amp; Carbon blacks



Pharmaceutics



Porous Materials



### SPECIFICATION

Model	3P densi 100
Method	Non-destructive analysis: gas pycnometry
Mode	fully automated
Measuring range	0.0001 g/cm³ – no upper limit
Accuracy	< 0.03 %
Repeatability	< 0.02 %
Measuring gases	N <sub>2</sub> , He, Ar and other non-corrosive gases
Dimensions	380 mm x 280 mm x 280 mm (L x W x H)
Weight	< 10 kg