

Suggested ordering specification for DCA RADIANT model 315

Thermo Fisher Scientific, Process Instruments, Newington, USA

General

Non-optical, dual-function, Wilhelmy balance based Dynamic Contact Angle analysis system. Capable of unattended programmable data acquisition and analysis of dynamic advancing and receding contact angles of solid surfaces and surface tension measurements of liquid solutions.

Set speed range:
20 – 264 microns/second (fast)
2 – 24 microns/second (slow)

Stage speed resolution:
0.1 microns/second

Stage position resolution:
0.1 micron

Stage control:
manual and automatic control

Stage travel distance:
1 – 39.9 mm

Data acquisition rate:
from about 0.4 seconds to 600 seconds

Data point storage:
up to the hard disk space

Programmable dwell times:
up to 1090 hours

Programmable cycles:
up to 999 per experiment in the method

Sample weight:
maximum 100 grams

Sample size:
maximum of 75mm x 75 mm square
Minimum 0.1 mm diameter rod/
fiber

Balance sensitivity:
1 microgram

Balance stability:
less than 10 micrograms per hour
@ stable 22 °C

Sample perimeter:
user entered

Solid sample geometry:
Plate, Rod/fiber, Disc, Tube, Cone,
and Sphere

Du Nouy Ring Standard:
ASTM and DIN

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