

Suggested ordering specification for DCA RADIANT model 322

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 micron/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 3.5 grams

Sample size:

maximum of 75 mm x 75 mm square
Minimum 1 micron diameter rod/fiber

Balance sensitivity:

Plate Range – 1 microgram
Fiber Range – 0.1 microgram

Balance stability:

less than 3 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

**Thermo Fisher Scientific
Process Instruments**

International/Germany

Dieselstr. 4,
76227 Karlsruhe
Tel. +49(0)721 40 94-444
info.mc.de@thermofisher.com

Benelux

Tel. +31 (0) 76 5 87 98 88
info.mc.nl@thermofisher.com

China

Tel. +86 (21) 68 65 45 88
info.mc.china@thermofisher.com

France

Tel. +33 (0) 1 60 92 48 00
info.mc.fr@thermofisher.com

India

Tel. +91 (22) 27 78 11 06
info.mc.in@thermofisher.com

United Kingdom

Tel. +44 (0) 1785 81 36 48
info.mc.uk@thermofisher.com

USA

Tel. 603 436 9444
info.mc.us@thermofisher.com

www.thermo.com/mc

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