

# Suggested ordering specification for radian DCA 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**

**USA**

25 Nimble Hill Rd.  
Newington, NH 03801  
Tel. 603 436 9444  
info.mc.us@thermofisher.com

**[www.thermo.com/cahn](http://www.thermo.com/cahn)**

C212\_05.11.07

© 2007/11 Thermo Fisher Scientific.  
All rights reserved. This document is  
for informational purposes only and is  
subject to change without notice.