

# DSR 500 CP 4000 PLUS

A rheometer  
to meet  
your requirements



With its motorized lift and built-in temperature control unit, this new cone-plate rheometer optimizes your measurements.

## FEATURES AND BENEFITS

- Automatic lift for gap.
- Quick attachment with AC265 coupling.
- Direct curve on display.
- Shear rate and speed control.
- Ramp programming.
- Direct analysis with regressions.
- Direct control of temperature unit.
- Huge viscosity range
- Programming and recording method.
- Direct measure with time to stop.
- User and locked mode.
- Data recording and USB transfer.
- Torque gage on display.
- Integrated temperature probe.
- Printer connection.
- Compatible with RheoTex software.
- Display of viscosity limits according to mobile and speed.

## WHAT'S INCLUDED WITH DEVICE ?

(according to part number)

- 1 Temperature unit with 70mm bottom plate.
- 1 Touch screen stylus.
- 1 User manual.
- 1 Calibration and checking certificate.
- 1 Microfiber cloth.

## AVAILABLE INSTRUMENTS

Reference	Designation	Viscosity range (mPa.s)
N500400	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (+10°C to +70°C)	1 to 63,6M (according to spindles MS CP (p81))
N500401	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (+10°C to +70°C) WITH PROGRAMMER*	
N500410	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (0°C to +150°C)	
N500411	DSR 500 CP4000 PLUS RHEOMETER AIR PELTIER (0°C to +150°C) WITH PROGRAMMER*	
N500420	DSR 500 CP4000 PLUS RHEOMETER LIQUID PELTIER** (-20°C to +100°C)	
N500421	DSR 500 CP4000 PLUS RHEOMETER LIQUID PELTIER** (-20°C to +100°C) WITH PROGRAMMER*	
N500430	DSR 500 CP4000 PLUS RHEOMETER (Room T°C to +300°C)	
N500431	DSR 500 CP4000 PLUS RHEOMETER (Room T°C to +300°C) WITH PROGRAMMER*	
N500426	DSR 500 CP4000 PLUS RHEOMETER + CYL*** AIR PELTIER (+10°C to +70°C) WITH PROGRAMMER*	
N500427	DSR 500 CP4000 PLUS RHEOMETER + CYL*** AIR PELTIER (+10°C to +70°C)	

M for million / \* Allow temperature setting by measuring head or RheoTex software. / \*\* Need a circulating water bath. Not included. / \*\*\* Allow using of measuring system MS DIN 11S, 13S, 22S, 33S (p72), MS VANE (according to dimensions p77) and MS SV (p79).

## SPECIFICATIONS

### Type of instrument

Rotating springless rheometer with 7" Touch screen

### Rotation speeds

Unlimited number of speeds between 0.3 and 1500 rpm

### Torque range

From 0.05 to 30 mNm

### Temperature Probe

Equipped with a PT100 sensor which indicates temperatures between -50°C to +300°C

### Accuracy

+/- 1 % of the full scale

### Repeatability

+/- 0,2 %

### Display

Viscosity (cP/Poises or mPa.s / Pa.s)  
Speed – Shear rate – Torque – % - Shear stress - Time – Temperature

### Norms

ASTM : D4287 ; BS 3900 ; DIN 3219 ; 52007-1 ; 53019-1 ; 54453 ; ISO 2884; 3219 ; 10364-12

### Languages

French/English/Turkish/German

### Supply voltage

90-240 VAC 50/60 Hz

### Analog output

4 – 20 mA

### PC connections

RS232 Port and USB

### Printer connection

USB Host Port -  
Compatible PCL/5

### What benefits are there for you?

Memorize your flow ramps, draw your curves and calculate your rheological parameters directly without computer (plastic viscosity, flow limit and rheological models: Newton, Bingham, Casson, and Ostwald). Edit your measurement reports directly on printer.

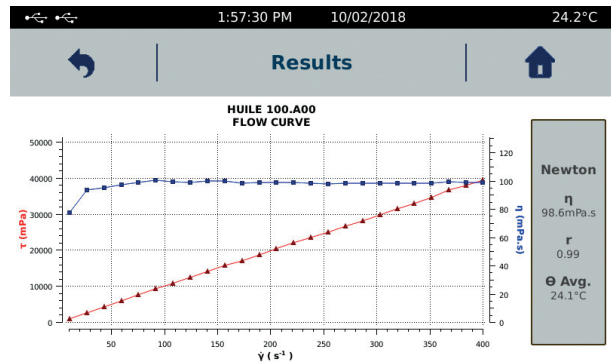
### Dimensions and weight

D610 x H700 x W340 mm

Weight: 22 kg

## COMPATIBLES MEASURING SYSTEMS

MS-CP (p81).



## OPTIONS & ACCESSORIES



- Barcode reader with stand and cable (p68).
- Touch screen protector (p68).
- Viscosity standards oil (p69).
- Dymo printer (p68).
- RheoTex software (p64-65).
- Protection cover (Ref. 121019).

Tel : +33 (0)4 78 08 54 06  
Fax : +33 (0)4 78 08 69 44  
contact@lamyreology.com

11 A, rue des Aulnes  
69410 Champagne au Mont d'Or  
France



www.lamyreology.com