

# FIRST PLUS

/ More than just a simple viscosity measurement /



## FEATURES AND BENEFITS

- 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.
- Speed or shear rate control.
- LIMS function.



## AVAILABLE INSTRUMENTS

Reference	Designation	Viscosity range (mPa.s)
N700700	FIRST PLUS VISCOMETER WITH SPINDLE RV-2 TO RV-7 (with standard stand)	200 to 240M
N700709	FIRST PLUS VISCOMETER WITH SPINDLE RV-2 TO RV-7 (with rack stand)	200 to 240M
N700300	FIRST PLUS LR VISCOMETER WITH SPINDLE LV-1 TO LV-4 (with standard stand)	15(1*) to 22M
N700009	FIRST PLUS LR VISCOMETER WITH SPINDLE LV-1 TO LV-4 (with rack stand)	15(1*) to 22M

M for million / (\*) Can reach 1 mPa.s with MS ULV (p.82). Not included.

## WHAT'S INCLUDED WITH DEVICE ? *(according to part number)*

4 Spindles LV or 6 spindles RV (p79) / 1 Integrated temperature probe / 1 Standard stand or rack stand (p70) / 1 Touch screen stylus / 1 User manual / 1 Calibration and checking certificate / 1 Microfiber cloth.

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## COMPATIBLES MEASURING SYSTEMS

MS-RV (p79), MS-LV (p79), MS-BV (p80),  
MS-VANES (p81), MS-KREBS (p81),  
MS-SV (p83), MS-ULV (p82), MS-DIN (p76).



## COMPATIBLES TEMPERATURE CONTROLS

EVA LR (p62), EVA MS DIN (p60),  
RT-1 PLUS (p63).



## OPTIONS & ACCESSORIES

- Carrying case (p70).
- External temperature probe (p71).
- HELIPRO stand (p66).
- Barcode reader (p70).
- Bayonet spindle rack (p71).
- Touch screen protector (p70).
- Viscosity standards oil (p71).
- Dymo printer (p70).
- Small volume package (p68-69).
- THERMOCELL package (p67).
- RheoTex software (p72-73).
- GuardLeg (p71).



GUARDLEG LV  
(Ref 000685)



## SPECIFICATIONS

### Type of instrument

Rotating springless viscometer with 7" Touch screen

### Rotation speeds

Unlimited number of speeds between 0.3 and 250 rpm

### Torque range

Standard Version: 0.05 to 13 mNm  
LR version: 0.005 to 0.8 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 (% - mNm) –  
Shear stress - Time – Temperature

### Norms

**ASTM** : D115 ; D789 ; D1076 ; D1084 ;  
D1337 ; D1338 ; D1417 ; D1439 ; D1824 ;  
D2196 ; D2243 ; D2364 ; D2556 ; D3288 ;  
D3468 ; D3716 ; D3730 ; D3794 ; D4016 ;  
D4143 ; D4878 ; D4889 ; D5324 ; D5400 ;  
D6279 ; D6577 ; D7394 ; D8020 ; E2975 ;  
F1607 ; **BS** 5350 ; **DIN** 2555 ; 3219 ; 52007-  
1 ; 53019-1 ; 54453 ; **EN** 302-7 ; 2555 ; 3219  
; 10301 ; 12092 ; 12802 ; 15425 ; 15564 ;  
**ISO** 1652 ; 2555 ; 2884-2 ; 3219 ; 10364-12

### Languages

French/English/Russian/Spanish/Turkish/  
German/Italian

### Supply voltage

90-240 VAC 50/60 Hz

### Analog output

4 – 20 mA

### PC connections

RS232, USB and  
Ethernet

### Printer connection

USB Host Port -  
Compatible PCL/5

### Dimensions and weight

Head: D180 x H230 x W130 mm  
Aluminium stand: L280 x W200 x H30 mm  
Stainless steel rod: Length 500 mm  
Weight: 6.7 kg