

# Product Fact Sheet

## XP-300



### Product name

XP-300

### Manufacture information

Sysmex Corporation  
[www.sysmex-europe.com](http://www.sysmex-europe.com)

### Summary

XP-300 is a fully automated haematology analyser, easily fitting into any laboratory and ideal as a backup analyser to the Sysmex full differential analyser systems.

### Productivity values

XP-300 improves the laboratory productivity with technical solution that makes the daily operation easier and safer, such as:

- integrated bar code reader for a better sample and reagent traceability
- easy software usability with the colour LCD touch screen
- error log capacity
- optimal serviceability of the instrument is with a memory card for easy setup, backup and restore operation

- additional LAN port connection for an optional SNCS IQAS Online capability

The advanced reagent management via unique barcode and the easy serviceability of the instruments will reduce the efforts needed in the pre-analytical and post-analytical phases.

### Clinical values

The XP-300 delivers high quality in analytical performance, with focus on reliability and improved reproducibility for the basic routine haematology tests. Consistency, confidence and trust in the results are particularly important for clinicians to make the appropriate decision and optimising patient care and safety.

XP-300 counts neutrophils as a distinct group on the basis of the chemical makeup of the reagents. The absolute neutrophil count is valuable in assessing acute phase inflammatory and infectious conditions; serving as an early marker of disease hence a separate neutrophil count has superior clinical utility than that of a monocyte count.

### Main and optional components

Main component		
Article no.	Item	Qty
AP807129	XP-300 Complete	1
Standard Accessories		
Article no.	Item	Qty
38000340	Handheld BR Gryphon	1
38000310	Cable CAB-320	1
Optional components		
Article no.	Item	Qty
38000306	Gryphon Retail Stand	1
38000305	Gryphon Desk/-Wall Holder	1
	External printer (could be provided locally)	1
	Printer connection cable for external printer (could be provided locally)	1

## Reagents

Article no.	Item	Qty
83401621	Cellclean	50 mL
83400116	Cellpack	20 L
834001110	Cellpack	10 L
97405216	Stromatolyser-WH	3x 500 mL

## Quality control and calibration

Article no.	Item	Qty
90406019	Eightcheck-3WP L	12x 1.5 mL
90406116	Eightcheck-3WP N	12x 1.5 mL
90405919	Eightcheck-3WP H	12x 1.5 mL
87400711	Eightcheck-3WP L	12x 4.6 mL
87400517	Eightcheck-3WP N	12x 4.6 mL
90405811	Eightcheck-3WP H	12x 4.6 mL
216992	SCS-1000 Calibrator	3x 2 mL

## Specifications

Feature	Description
<b>Parameters</b> (Whole blood mode)	20 WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, LYM% (W-SCR), MXD% (W-MCR), NEUT% (W-LCR), LYM# (W-SCC), MXD# (W-MCC), NEUT# (W-LCC), RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT
<b>Parameters</b> (Pre-diluted mode)	20 WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, LYM% (W-SCR), MXD% (W-MCR), NEUT% (W-LCR), LYM# (W-SCC), MXD# (W-MCC), NEUT# (W-LCC), RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT
<b>Technologies</b>	WBC DC detection RBC/PLT DC detection HGB Non-cyanide haemoglobin detection
<b>Throughput</b>	Approx. 60 samples/hour
<b>Required sample vol.</b>	1 mL or more of whole blood (for a 13 mm diameter sample tube) 500 µL or more of whole blood (for a micro tube)

Feature	Description
<b>Aspiration volume</b>	
Whole blood mode	Approx. 50 µL
Pre-diluted mode	Approx. 200 µL (diluted blood) Blood volume required for the pre-dilution is 20 µL or more.
<b>Precision (Whole blood mode)</b>	
WBC	3.5% or less ( $4.0 \times 10^3/\mu\text{L}$ or more)
RBC	2.0% or less ( $4.00 \times 10^6/\mu\text{L}$ or more)
HGB	1.5% or less
HCT	2.0% or less
MCV	2.0% or less
MCH	2.0% or less
MCHC	2.0% or less
PLT	6.0% or less ( $100 \times 10^3/\mu\text{L}$ or more)
RDW-CV	4.0% or less
RDW-SD	4.0% or less
PDW	12.0% or less
MPV	5.0% or less
P-LCR	20.0% or less
PCT	9.0% or less
LYM#	15.0% or less
NEUT#	15.0% or less
MXD#	30.0% or less ( $1.0 \times 10^3/\mu\text{L}$ or more)
LYM%	15.0% or less
NEUT%	15.0% or less
MXD%	30.0% or less (12 W-MCR% or more)

Feature	Description
<b>Precision (Pre-diluted mode)</b>	
WBC	6.0% or less ( $4.0 \times 10^3/\mu\text{L}$ or more)
RBC	3.0% or less ( $4.00 \times 10^6/\mu\text{L}$ or more)
HGB	2.5% or less
HCT	3.0% or less
MCV	3.0% or less
MCH	3.0% or less
MCHC	3.0% or less
PLT	9.0% or less ( $100 \times 10^3/\mu\text{L}$ or more)
RDW-CV	6.0% or less
RDW-SD	6.0% or less
PDW	18.0% or less
MPV	7.5% or less
P-LCR	30.0% or less
PCT	13.5% or less
LYM#	25.0% or less
NEUT#	25.0% or less
MXD#	45.0% or less ( $1.0 \times 10^3/\mu\text{L}$ or more)
LYM%	25.0% or less
NEUT%	25.0% or less
MXD%	45.0% or less (12 W-MCR% or more)
<b>Linearity (Whole blood mode)</b>	
WBC	$\pm 0.3 \times 10^3/\mu\text{L}$ ( $1.0 - 9.9 \times 10^3/\mu\text{L}$ ) $\pm 3.0\%$ ( $10.0 - 99.9 \times 10^3/\mu\text{L}$ )
RBC	$\pm 0.03 \times 10^6/\mu\text{L}$ ( $0.3 - 0.99 \times 10^6/\mu\text{L}$ ) $\pm 3.0\%$ ( $1.00 - 7.00 \times 10^6/\mu\text{L}$ )
HGB	$\pm 0.2 \text{ g/dL}$ ( $0.1 - 9.9 \text{ g/dL}$ ) $\pm 2.0\%$ ( $10.0 - 25.0 \text{ g/dL}$ )
HCT	$\pm 1.0 \%$ ( $10.0 - 33.3\%$ ) $\pm 3.0\%$ ( $33.4 - 60.0\%$ )
PLT	$\pm 10 \times 10^3/\mu\text{L}$ ( $10 - 199 \times 10^3/\mu\text{L}$ ) $\pm 5.0\%$ ( $200 - 999 \times 10^3/\mu\text{L}$ )
<b>Carry over</b>	
WBC	3.0% or less
RBC	1.5% or less
HGB	1.5% or less
HCT	1.5% or less
PLT	5.0% or less
<b>Data storage</b>	Up to 40.000 with histograms
<b>Dimension</b>	
Main unit	420 (W) x 355 (D) x 480 (H) mm
<b>Weight</b>	
Main unit	Approx. 30 kg
<b>Quality control</b>	60 plots x 6 files

Feature	Description
<b>Interface</b>	RS-232C 2x Ethernet (RJ45) Bar code port Parallel port Serial port
<b>Operative temperature</b>	15°C to 30°C
<b>Operative humidity</b>	30% to 85%
<b>Power requirement</b>	120/220/230/240 VAC $\pm 10\%$ (50/60 Hz)
<b>Power consumption</b>	Approx. 200 VA or less
<b>Language settings</b>	Japanese, English, French, German, Spanish, Italian, Chinese, Russian, Portuguese, Indonesian, Korean

Reference: XP-300 IFU