

# 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><br>(Whole blood mode) | 20<br>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><br>(Pre-diluted mode) | 20<br>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<br>DC detection<br>RBC/PLT<br>DC detection<br>HGB<br>Non-cyanide haemoglobin detection  |
| <b>Throughput</b>                       | Approx. 60 samples/hour   |
| <b>Required sample vol.</b>             | 1 mL or more of whole blood<br>(for a 13 mm diameter sample tube)<br>500 µL or more of whole blood<br>(for a micro tube)  |

| Feature                             | Description  |
|-------------------------------------|--|
| <b>Aspiration volume</b>            |  |
| Whole blood mode                    | Approx. 50 µL  |
| Pre-diluted mode                    | Approx. 200 µL (diluted blood)<br>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                                 | $\pm 0.3 \times 10^3/\mu\text{L}$ ( $1.0 - 9.9 \times 10^3/\mu\text{L}$ )<br>$\pm 3.0\%$ ( $10.0 - 99.9 \times 10^3/\mu\text{L}$ )   |
| RBC                                 | $\pm 0.03 \times 10^6/\mu\text{L}$ ( $0.3 - 0.99 \times 10^6/\mu\text{L}$ )<br>$\pm 3.0\%$ ( $1.00 - 7.00 \times 10^6/\mu\text{L}$ ) |
| HGB                                 | $\pm 0.2 \text{ g/dL}$ ( $0.1 - 9.9 \text{ g/dL}$ )<br>$\pm 2.0\%$ ( $10.0 - 25.0 \text{ g/dL}$ )                                    |
| HCT                                 | $\pm 1.0 \%$ ( $10.0 - 33.3\%$ )<br>$\pm 3.0\%$ ( $33.4 - 60.0\%$ )  |
| PLT                                 | $\pm 10 \times 10^3/\mu\text{L}$ ( $10 - 199 \times 10^3/\mu\text{L}$ )<br>$\pm 5.0\%$ ( $200 - 999 \times 10^3/\mu\text{L}$ )       |
| <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  |

| Feature                      | Description   |
|------------------------------|---|
| <b>Interface</b>             | RS-232C<br>2x Ethernet (RJ45)<br>Bar code port<br>Parallel port<br>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 $\pm 10\%$<br>(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

**Exclusive distributor**