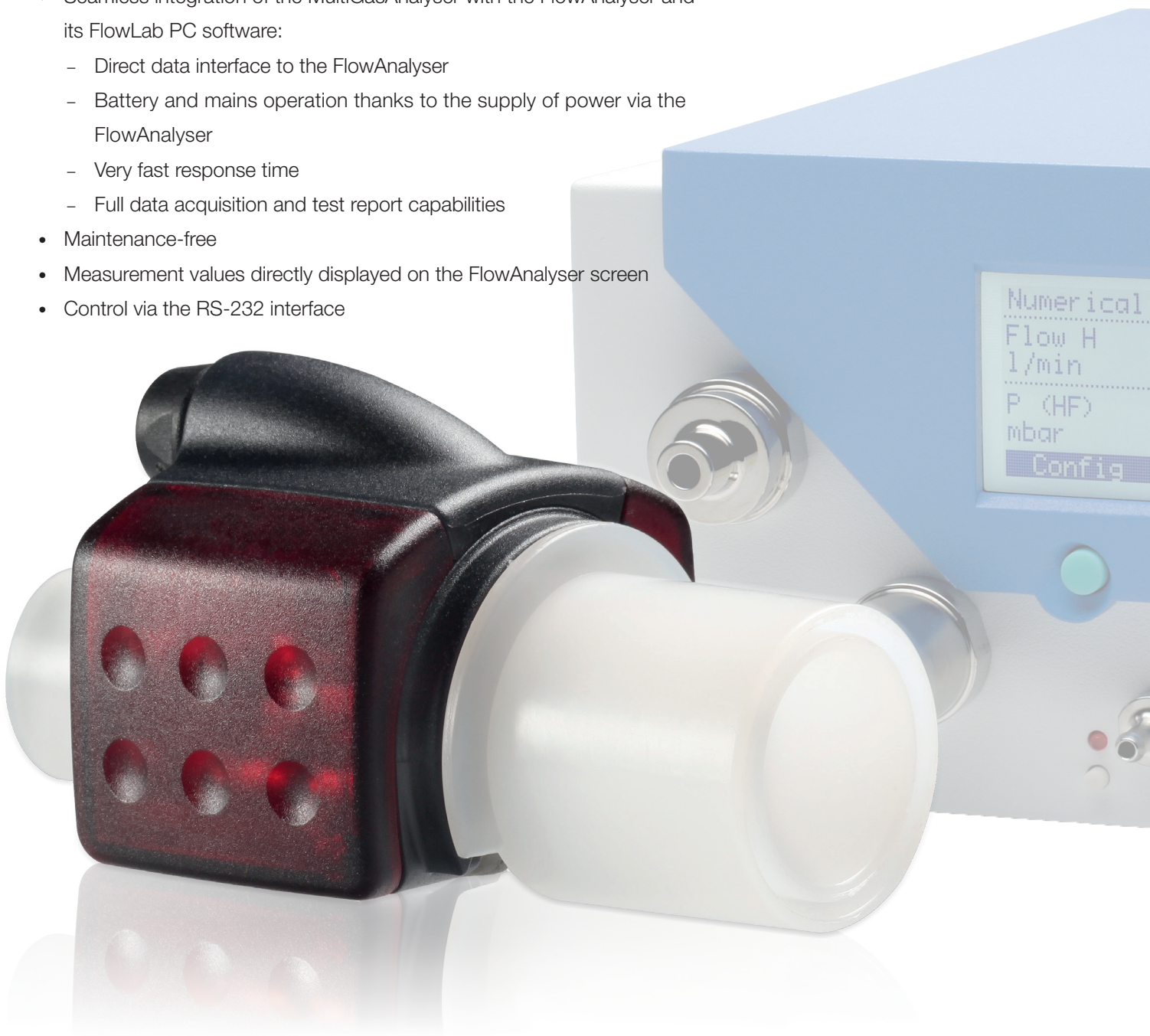# MultiGasAnalyser
OR-703

## Simple measurement of anaesthetic gases

MultiGasAnalyser OR-703 expansion of the FlowAnalyser for the measurement of all anaesthetic and respiratory gases. Inspection and calibration of anaesthetic machines.

- Measurements of $CO_2$, $N_2O$, halothane, enflurane, isoflurane, sevoflurane and desflurane gases

## Characteristic features

- World's smallest multi-gas sensor
- Seamless integration of the MultiGasAnalyser with the FlowAnalyser and its FlowLab PC software:
  - Direct data interface to the FlowAnalyser
  - Battery and mains operation thanks to the supply of power via the FlowAnalyser
  - Very fast response time
  - Full data acquisition and test report capabilities
- Maintenance-free
- Measurement values directly displayed on the FlowAnalyser screen
- Control via the RS-232 interface

Visually the IMT Analytics MultiGasAnalyser OR-703 is convincing due to its compact construction. Internally it is appealing thanks to the deployment of state-of-the-art microsystem technology. The MultiGasAnalyser OR-703 offers unique flexibility for testing the dosing and monitoring of anaesthetic gases, as well as for precision control of $CO_2$ measurements. The sensor head measures infrared light absorption at various wavelengths to exactly determine the gas concentrations of the mixtures.

| Parameter | Specification | | |
|-----------|---------------|---|---|
| Order number | 500.041.000 | | |
| Measurement values | | **Range** | **Accuracy** |
| | $CO_2$ | 0 – 10 % | ± (0.2 % ABS + 2 % REL) |
| | | 10 – 20 % | ± (0.3 % ABS + 4 % REL) |
| | $N_2O$ | 0 – 100 % | ± (2 % ABS + 2 % REL) |
| | HAL, ISO, ENF | 0 – 8 % | ± (0.15 % ABS + 5 % REL) |
| | | 8 – 12 % | ± (0.2 % ABS + 10 % REL) |
| | SEV | 0 – 10 % | ± (0.15 % ABS + 5 % REL) |
| | | 10 – 15 % | ± (0.2 % ABS + 10 % REL) |
| | DES | 0 – 22 % | ± (0.15 % ABS + 5 % REL) |
| | | 22 – 25 % | ± (0.2 % ABS + 10 % REL) |
| Response time | $CO_2$ < 90 ms, $N_2O$, AA <300 ms, $O_2$ <300 ms | | |
| Monitoring | Numerical data and real-time curves using the FlowLab software | | |
| | Numerical data in the FlowAnalyser | | |
| | Control | via the FlowAnalyser's RS-232 port | |
| Dimensions | Weight | < 25 g (without cable) | |
| | Size | 3.8 × 2.9 × 3.1 cm | |
| Ambient conditions | Operation | 10 – 40° C | |
| | Storage | -20 – 50° C | |
| | Humidity | 10 – 95 %, non condensing | |
| | Ambient pressure | 700 – 1200 mbar (3048 m) | |
| Compliance | EN ISO 80601-2-55:2011, IEC 60601-1:2005, EN ISO 5356-1:2004 | | |

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