

Product Information

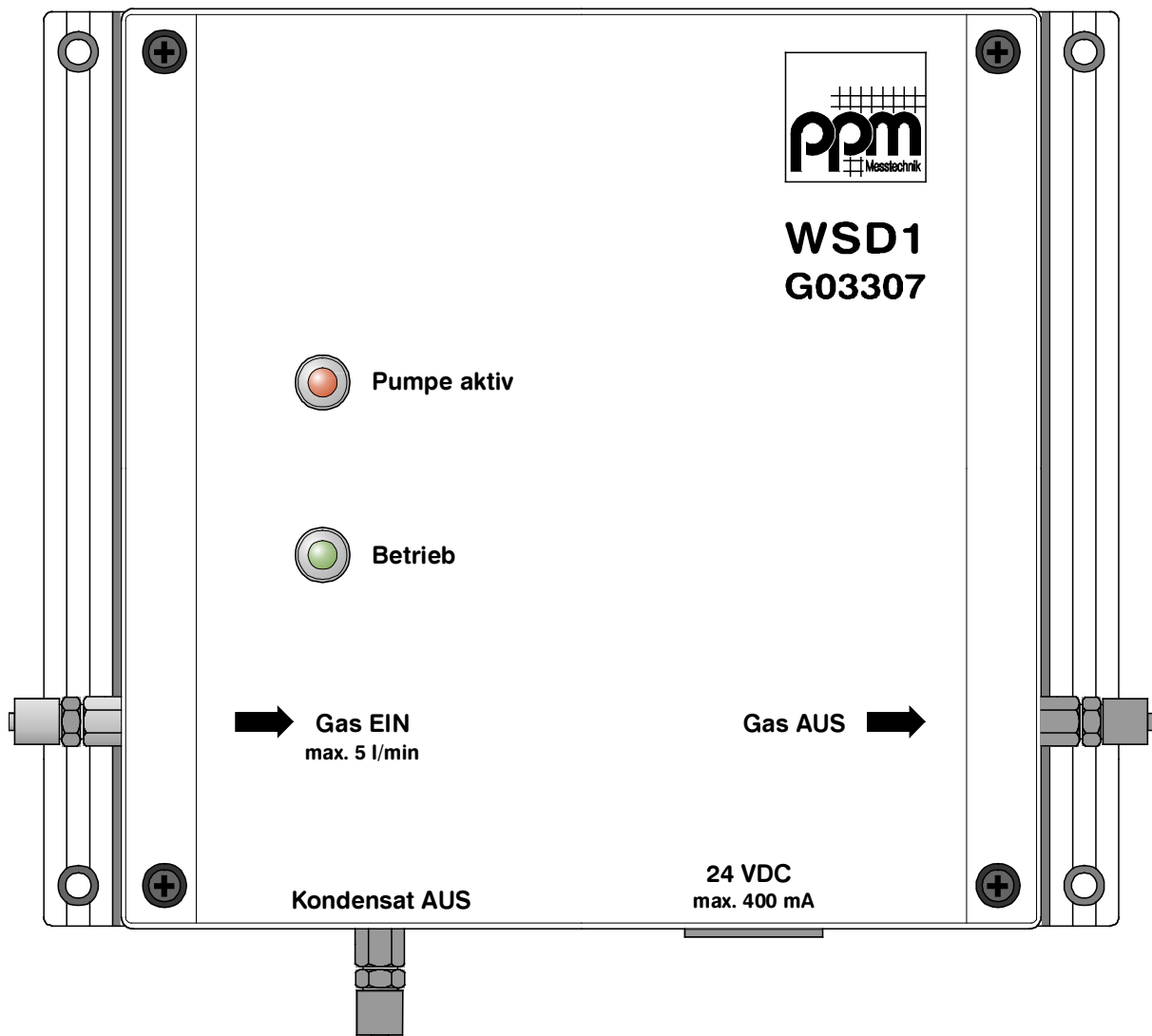
WSD1 Condensate Separator with Automatic Drain



The WSD devices are used, when condensate in the sample gas tubing has to be separated and drained. Drain of the separator is automatically activated. WSD devices are maintenance-free under normal conditions.

Through the integration of condensate separator with level sensor, control unit and peristaltic pump the WSD are compact units which can be added to any existing installation at any time.

- in many cases an affordable alternative to measuring gas cooler or -dryer.



The device is installed directly into the sample gas stream of the analyzer. Condensate, contained in the sample gas, is separated and collected in the separator's drain.

Since the condensate level has risen to approx. 5 mm, the integrated pump is activated to empty the separator's drain. The short term capacity of the pump is about 150 ml/min. A status output (24 VDC, low active) can be processed e.g. by a MPC or equivalent equipment.

Technical Data

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|----------------------------------|---|
| Housing: | Aluminium Casting, powder coated |
| Size: | 160 x 160 x 80 mm³ |
| Protection class: | IP66 |
| Weight: | 1,9 kg |
| Operating temperature range: | +10 to +40 °C |
| Electrical connection: | 24 VDC |
| Power consumption nominal: | 20 mA |
| Power consumption max.: | 400 mA |
| Flow throughput max.: | 5 l/min |
| Pressure decrease Gas in/Gas out | 3,5 hPa/l |
| Condensate quantity nominal: | 20 ml/min |
| Condensate quantity max.: | 150 ml/min for 1 minute |
| min. conductivity of condensate: | 30 μScm^{-1} |
| Temperature of sample gas: | Ambient temperature ₁₎ |

₁₎ The equipment has no additional cooling device for the sample gas. Therefore the sample gas must have ambient temperature when entering the separator to avoid re-condensing in the output branch of the sample gas

WSD1 standard model is supplied with two brackets for wall mounting. The unit can be supplied as mobile unit or be equipped with a device for the mounting on a C-Rail in the switch cabinet.