

On Site Pre Dilution Device GSP

Article no.: Z0020022



- Pre dilution at the source
- VDI 3880 compliant
- Avoid losses due to condensation
- Incl. a Prandtl tube for air speed monitoring

The GSP can supplement the sampling system CSD 30 and dilutes the sample directly at the sampling point. Here the pre-dilution can be performed with nitrogen or synthetic air, whereby the pre-dilution ratio is fixed by the manufacturer (standard 1:10 with individual calibration data). The pre-dilution ratio can, however, be set to different exhaust air conditions on request by exchanging a sapphire screen accessible from the outside (e.g. dilution 1:5 or 1:20).

The pre-dilution system provides the sample air flow with a constant supply of nitrogen (N₂) or synthetic air directly into the tip of the sampling probe. The moist-warm sample is thereby diluted immediately at the point of extraction with dry N₂ or synthetic air so that when it cools down to the transportation and laboratory temperature no condensation forms in the probe, in the tube or in the sample bag. As a result, no additional heating is necessary.

Furthermore the GSP has a built-in particle filter to protect against contamination as well as a micro Prandtl tube, which can be used to monitor the process.

Scope of supply:

- Stainless steel pre-dilution probe, with sapphire screen for approx. 1:10
- Two-level bottle pressure reducer
- Connection tubes
- Calibration datasheet

The following is required:

- N₂, compressed air cylinder
- Sampling device

Accessories (optional):

- Additional sapphire screens for different dilution ratios of approx. 1:5 or 1:20

TECHNICAL DATA

Manufacturer	Odournet GmbH, Germany	Nitrogen or synthetic air	Two-level bottle pressure reducer
Dimensions L / W / H [mm]	1800/150/30, can be expanded by 800 mm using an extension probe	N ₂ or synthetic air consumption	prox. 100l/h
		Sampling time with CSD30	30 or 10 minutes
Weight	1.5 kg	Pressure at the sampling point	-200 hPa bis +40 hPa
Control mechanism of the volume flow	Gas jet pumps	Max. Temperature at the sampling point	240° C
		Sample air	Calibrated sapphire screen
		Warranty	24 months