



# Gasmeter Portable Sampling System

The Gasmeter portable sampling system has been designed for portable emission monitoring measurements. It is used for on-site measurements e.g., in compliance measurements or research. It can be used for measuring trace concentrations of pollutants in wet, corrosive gas streams. The sample gas can be measured undiluted and without drying since the sample pump, heated filter and valve are located in a module that is heated to 180 °C. From the sampling system the gases can be directed into Gasmeter FTIR gas analyzer. The function of the portable sampling system is automatic, but sample pump and valve can be controlled also manually.

## System specifications

<b>Heated sampling train</b>	<b>Set temperature:</b> 180 °C <b>Main components:</b> filter, pump, sample lines <b>Materials:</b> Teflon and stainless steel
<b>Sample</b>	<b>Flow:</b> ~4 l/min, constant <b>Filtering before PSS (optional probe):</b> Filtration of particulates (2 µm)
<b>Power supply</b>	Separate models for 115 and 230 V / 50 -60 Hz <b>Power consumption:</b> 400 - 3600 W, depending on the sample lines (without sample probe)
<b>Gas fittings</b>	<b>Sample in:</b> 6 mm Swagelok, stainless steel <b>Sample out:</b> 6 mm Swagelok, stainless steel <b>Zero gas and instrument air:</b> 6 mm Swagelok, stainless steel
<b>Enclosure</b>	<b>Dimensions:</b> 400 × 300 × 210 mm <b>Material:</b> SS 316
<b>Weight</b>	12.3 kg
<b>Product compliance</b>	CE, UKCA
<b>Internal heated filter</b>	<b>Default:</b> Bonded microfiber 2 µm particulate filtration <b>Option:</b> Sintered stainless steel 0.1µ
<b>Oxygen sensor (only in PSS Plus)</b>	<b>Principle:</b> ZrO <sub>2</sub> cell <b>Measuring range:</b> 0.1 – 25 % <b>Calibration:</b> Single point calibration with air
<b>Optional heated line</b>	<b>Tube size:</b> 4 mm inner diameter, 6 mm outer diameter <b>Core material:</b> Teflon <b>Fittings:</b> 6 mm Swagelok <b>Power supply:</b> Supplied from PSS <b>Power density:</b> 120 watts/meter <b>Maximum total sample line length:</b> 20 m for 230V model, 10 m for the 115V model

## Operating and storage conditions

<b>Operating temperature</b>	0 to 40 °C, non-condensing
<b>Storage temperature</b>	-20 to 60 °C, non-condensing

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