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Pressemitteilung

Portable gas sampling probe

In the field of emission monitoring, but also in other fields of application of gas analysis, it is common to check the function of stationary analysis systems at regular intervals by means of transportable measuring instruments. In addition, there are applications - e.g. exhaust gas monitoring - in which gas analysis is carried out at intervals.

It is a necessity that the portable measuring equipment is of high quality, especially for control measurements since they are mostly carried out by external monitoring companies. The purpose of these controls is to verify the reliability of the measurement results from the stationary analysis system. Thus, the data measured during these interval measurements is expected to be as reliable and precise.

To obtain precise test results in these fields of application, it is necessary that the measuring equipment is easy and safe to handle as well as light weight, in addition to the already mentioned high quality.

Buehler Technologies - a global supplier of equipment for gas analysis - has a comprehensive programme for portable gas analysis in its portfolio. It consists of a gas sampling probe „Smart Sample Tube“ which described with more detail below, the „**Smartline**“, a heated sample gas line with integrated particle filter and the PCS Smart series, a range of sample gas conditioning systems.

The main design criteria for the gas sampling probe - the „Smart Sample Tube“ were the lowest possible energy consumption combined with the avoidance of cold bridges and a high degree of protection against accidental contact for the measuring technicians. The sampling tube protruding into the process stream is heated internally. The power connection required for this and the controller for controlling the heating are located within an insulating housing made of silicone. The connector for the sample gas line - „**Smartline**“ is also located inside this housing. It is easily accessible through a closable opening on the side of the housing. The sealing cap is inextricably linked to the housing. The dimensions are matched in such a way that the filter housing of the sample gas line directly adjoins the insulating housing of the gas sampling probe. This avoids any cold bridge both at the sample gas line and at the end of the external probe. At the same time, the insulating housing offers excellent contact protection.

A calibration connection and a fixing bracket with a 2-metre safety chain are optionally available.

The sampling tube is available in lengths of 0.5 m; 1.0 m; 1.5 m and 2.0 m and has an outer diameter of 25 millimetres. The power supply is 115V or 230V AC 50/ 60Hz. The heating **capacity depends on the extraction tube length as well as the supplied power** and ranges from 103 to **500** watts. The weight of the „Smart Sample Tube“ is between approx. 2 – 4 kg, depending on the selected variant.

More information under:

<https://www.buehler-technologies.com/de>

Smart Sample Tube YYY

Smart Sample Line CCC

PCS Smart series VVV

Fotos zur Pressemitteilung

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BU: Portable gas sampling probe Smart_Sample_Tube