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When direct dewpoint spot measurement is not possible

DSS70A Portable Sampling System

The Vaisala product family of portable dewpoint measurement instruments has now been enhanced with a sampling system option. The new DSS70A Portable Sampling System allows measurements to be made in applications where a direct measurement cannot be used. It also allows measurements to be made in the most demanding processes, with dusty and hot process gas samples.

Compact design

The Vaisala DSS70A Portable Sampling System is a battery-powered system for portable dewpoint sampling applications. The DSS70A system enables dewpoint measurements to be made from places where direct measurement is not possible. The product is an option for the

DM70 Hand-Held Dewpoint Meter family, but can also be ordered separately. This complete compact sampling system has been built around Vaisala's DM70 Hand-Held Dewpoint Meter.

The DSS70A is designed to provide the greatest amount of sampling flexibility. A battery-powered pump is used to extract a gas sample. The sample gas then passes through a filter to remove particulate contamination before measurement. Flow through the system is controlled and monitored with a needle valve and flow meter. The DSS70A is then simply connected to an appropriate sample point where tubing and measurement results can be monitored and analyzed with a Vaisala MI70 Measurement Indicator.

The DSS70A Portable Sampling System, delivered in a carrying case, includes everything needed for sampling.





Demanding applications

The DSS70A is designed to work even in very demanding processes, for example in metal treatment processes, where the measured air sample is very hot and dirty. In plastic dryer applications a DM70 Hand-Held Dewpoint Meter together with a DSS70A Sampling System is an optimum tool to check the dryer is working properly.

Performance

- Wide measurement range – from -60 °C to +60 °C
- Fast response time between start-up from ambient conditions to low and high process dewpoints
- Standard process connections 1/4" SWAGELOK®
- Flow meter and needle valve

- to adjust sampling rate
- Changeable filter
- Clear battery indicator
- Rechargeable battery or AC usage
- Graphical trend display
- Sophisticated data collection functions including Windows® software

Measurement reports made easy

The Vaisala MI70 Measurement Indicator offers many handy features to analyze and collect data during measurement. The indicator has numeric and graphic display modes to follow the process trends. Measurement results can be stored in the memory and then later easily transferred to a PC at the office, using the optional Windows® software. ●



Mechanics Engineer Kari Bergman of Vaisala checks an injection moulding plastic dryer at Plastoco Oy.