



MCMSPARES Tailored to your Requirements

At MCM we don't subscribe to the view that "one size fits all".

In moisture analysis there are plenty of constants, but it's often the unique detail of an application that can make the difference between good and bad data.

Is the sample system made from the correct materials? What types of connector fittings are used? Is the flow at the right level? Does the exhaust have an unrestricted vent? How can you check the measurement integrity?

Depending on the answers to the above, it's quite possible that you could be seeing large fluctuations in the collected data, sometimes to the point that your product appears to be out of specification. In such a situation the hygrometer will often be called in to question, when in fact the sample system itself is at fault.

To help you get the most from your MCM hygrometer, we can provide a full range of sampling and spares packages. If necessary, we will tailor these to your specific requirements but we also offer "off the peg" solutions that can be applied to many applications.

All of our packages comprise the highest quality components, selected to suit the demanding nature of moisture analysis and to help mitigate many of the measurement uncertainties that commonly arise.

Some common sampling mistakes

- Using rubber or PTFE sample tube
- Use of quick connect couplings
- Long sample tubes
- No means of validating the result
- Flow measurement in the wrong place

And the problems that can occur

- This material is permeable and introduces moisture to the measurement, producing false high readings
- These couplings allow moisture to migrate to the measurement and take a long time to dry down
- Take longer to dry down and can mask the true value of the sample gas under test.
- The calibration of the hygrometer could be moving due to sample conditions, but how do you know?
- Upstream of the hygrometer adds a potential "moisture trap" and source of ingress



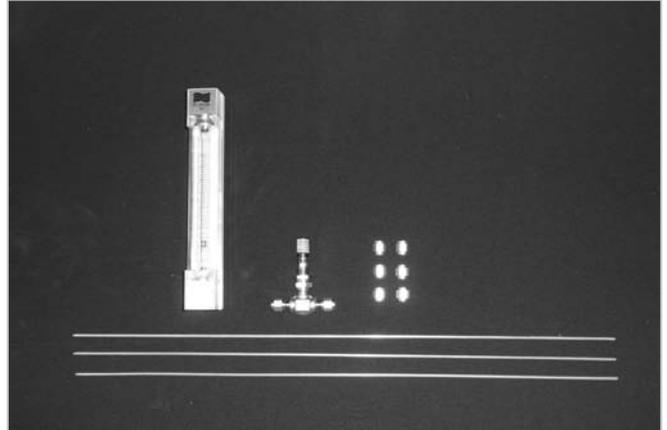
MCM is a small, tightly knit team that prides itself on fast response and flexibility. If you've got a unique request, contact us and we will do our best to help.

SP1 Standard Sampling Package

- Adopt a standard measurement methodology with MCM's recommended set-up.
- High quality stainless steel components help mitigate moisture ingress.
- Minimise the effect of hysteresis and increase the speed of sample system drydown.

Includes:-

- 1 x Flow meter (60-600 cc/min)
- 1 x Stainless steel needle valve
- 3 x 0.5m length of 1/8" stainless steel pipe
- 1/8" Stainless steel nuts and olives

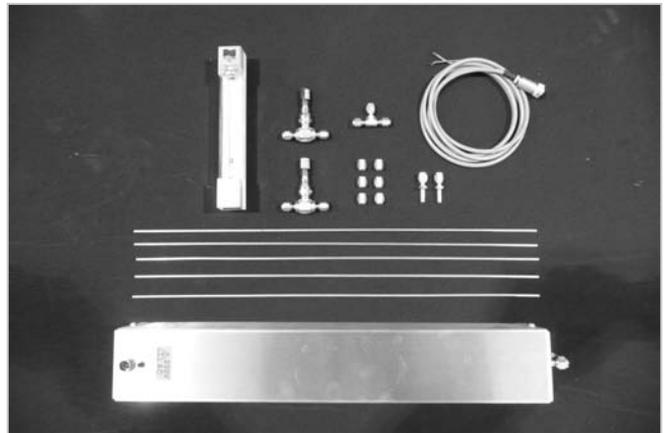


SP2 Dry Gas Sampling Package

- Validate sample data by cross-referencing against a known "dry" gas condition, as produced by the Bottled Gas Dryer.
- Use the "dry" gas to test the zero value of the hygrometer, before and after sampling.
- Quantify the effect of gas-borne contamination and ensure reproducibility of results.

As per SP1 but also to include:-

- 1 x Bottled Gas Dryer (BGD) with 1/4"-1/8" reducer fittings
- 1 x Additional stainless steel needle valve; 1 x "T" piece
- 2 x Additional lengths of 1/8" stainless steel pipe
- 1/8" Stainless steel nuts and olives



SP3 Replacement Desiccant Package

You can tighten the measurement process, reduce significant sources of error and greatly improve audit capability with MCM's range of training courses.

- 1- or 2-day courses, either at MCM or on your site
- Hands-on sessions help put theory in to practice
- Fully customisable to address your specific concerns
- A cost-effective way to maximise investment



SOLUTIONS TAILORED TO YOU

The standard sampling packages SP1 to SP3 are offered as "off the peg" solutions that will address the majority of applications. However, if you have unique circumstances or would like a particular set-up in mind then we are happy to accommodate requests for bespoke solutions.

To order any of the standard packages or to discuss customised options, please contact MCM's Service Department.



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