

Sensor und Catalyst Characterization Center (SESAM)

Description of facility

The sensor und catalyst characterization center which is specially constructed for testing of these materials has a gas mixing unit through which up to eight individual gases can be mixed and sent into a quartz glass reactor to heat to temperatures up to 1200°C before entering into the test chamber. The volume of gas mixture can be individually varied, so that various test conditions can be created. Similarly, the test samples can have different geometries and sizes. By means of a Solartron 1255 impedance spectroscopy equipped with a potentiostat, the sensor properties can be tested. Catalytic reduction can be analyzed by a 5-channel gas analysis device. The characterization center is computer controlled to allow continuous and non-stop investigation during long-term experiments.

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This handout, and cross-references to related measurement techniques and facilities are available at: <http://messtec.dlr.de/link-551-en>.

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