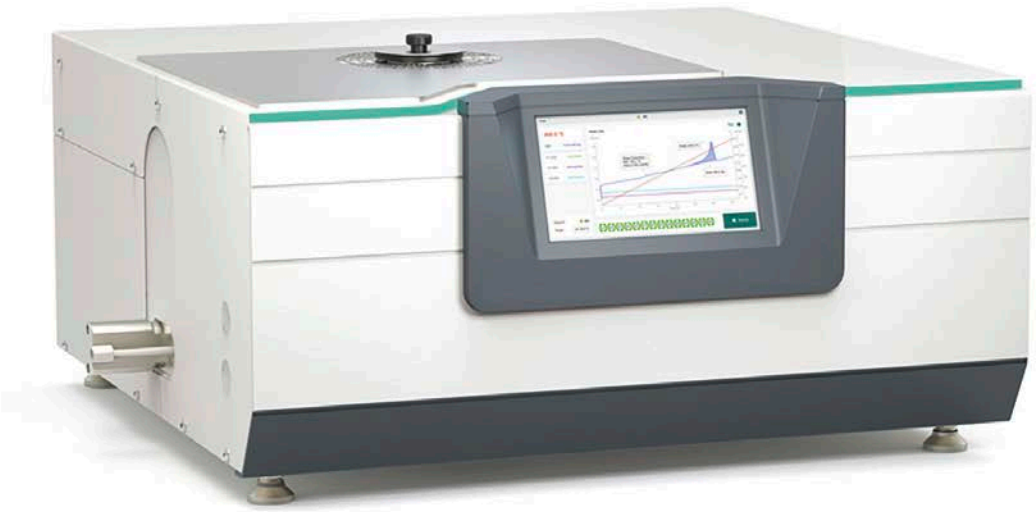
Competence creates Confidence.

Model no. H3003-0037/H3003-0038

DSC MEASURING DEVICE FOR OIT MEASUREMENTS

ISO 11357-6



Dynamic differential calorimeter for determining the oxidation induction time for plastic piping and protective pipe systems, as well as fittings made of polyolefins. The period of time during which an antioxidant remains in the specimen and thus prevents oxidation is measured. For testing, the material sample is kept in flowing oxygen at a constant, specified temperature. The dynamic differential calorimeter offers a wide measuring range together with high resolution. In addition to high temperature accuracy and reproducibility of test results, this high-quality device is characterised by high-quality workmanship and state-of-the-art sensor technology.

Release 08/ 2025

Always keep an eye on the device status – even from a distance

With the DSC, you always have an overview of the current device status. The LED status display on the new device design allows for remote monitoring. The integrated colour touch display shows the most important information and allows you to start measurements with a tap of your finger, check the progress of your measurement and the remaining time, monitor gases, idle states and the current temperature, and review recently taken measurements. The device has an integrated colour touch display and LED status bar and can be optionally equipped with an automatic sample changer.

SafeTouch ASC gripper – always in good hands

The SafeTouch function ensures that the contact force is adjusted to each type of crucible. The appropriate contact force is automatically derived from the properties of all crucibles (dimensions, material, cold-welded, open, etc.). These are stored in a comprehensive database. The selected contact force is therefore always the lowest possible force required under the given circumstances. Even thin-walled metal crucibles can be handled gently and without risk of deformation. The ASC gripper is able to grip any crucible type defined in the crucible database correctly.

Optimisation of your laboratory workflows

The amount of data recorded in the analytical laboratory is constantly increasing. To ensure smooth laboratory operations, it is important to keep track of the collected data and organise it so that it is available for future experiments or final reports. Evaluations and comparisons of measurement curves can be complex. We offer powerful software evaluation algorithms and data-based comparison tools that make your processes more efficient.

Standard features

- Integrated mass flow controller for two purge gases and one protective gas
- Gas-tight design
- Gas atmospheres inert/oxidising, static/dynamic
- Calibration set
- Operation via PC (including software)
- CE conformity

Options

- Fourth mass flow controller
- 192 + 12 positions ASC
- Parting device
- 100 Hz data collection

Version
DSC MEASURING DEVICE FOR OIT MEASUREMENTS

		H3003-0037 H3003-0038
Temperature range when cooling with compressed air	°C	RT to +600
Temperature accuracy	K	± 0.1
Heating and cooling rates (depending on temperature)	K/min	0.001 to 100
Cooling with LN2	min. T/°C	-170
Cooling with intracooler	min. T/°C	-70 / -40
Cooling with compressed air	min. T/°C	< 0
Enthalpy accuracy	%	< 1 for adamantane, indium, zinc < 2 for most materials
Measuring range	mW	± 650
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70 Non-condensing
Voltage data		100-240 V, -15%/+10%, 50-60Hz, 0.2A