

Model no. H3003-0009 / -0017

## DSC MEASURING DEVICE FOR OIT MEASUREMENTS



According to

ISO 11357-6

ASTM D 3418

ASTM D 3895

Dynamic difference calorimeter for determining the oxidation induction time for polymer pipe and protective pipe systems as well as moulded elements made of polyolefins. The length of time the anti-oxidant remains in the test sample and thus prevents oxidation is measured. The test sample is kept at a constant, predetermined temperature in flowing oxygen during this test. The dynamic difference calorimeter provides a large measuring range at high resolution. This quality device is characterised by high temperature accuracy and reproducibility as well as high manufacturing quality and the latest sensor technology.

**EASY AND SAFE OPERATION**

- > Comfortable operation, evaluation and clear visualisation with PC operating software
- > Protection and flushing gas facilities are included

**RELIABLE TEST RESULTS**

- > Laser-based processing of the sensor disk and the thermoelements ensure high sensitivity and long-term stability

**LASTING EFFICIENCY**

- > High-quality equipment components to ensure high reliability, a long service life and low maintenance costs.

**STATE-OF-THE-ART TECHNOLOGY**

- > Software for performing measurements and evaluating the measurement data

**COOLING OPTIONALLY WITH AIR**

- > Air cooling facilitates measurements at temperatures not exceeding +600 °C

<b>VERSION DSC MEASURING DEVICE FOR OIT MEASUREMENTS</b>		<b>H3003-0009</b>	<b>H3003-0017</b>
Temperature range for cooling with compressed air	°C	RT bis +600	-
Temperature range for cooling with intracooler, controlled cooling rates	°C	-	-40 to +600
Oven for fast heating and cooling cycles			✓
Sensor for results with high resolution and reproducibility			✓
Software-controlled magnetic switching valves for two flushing gases and one inert gas			✓
Integrated mass flow controller for two flushing gases and one inert gas			✓
Automatic sample changer for up to 20 samples and references			+
Calibration kit			✓
Gas atmospheres		dynamic, static, oxidizing, inert	
Heating and cooling rates (depending on temperature)	K/min	0.001 to 500	
Temperature accuracy	K	± 0.1	
Enthalpy accuracy	%	< 2	
Indium Response Ratio (ratio between peak height and peak width)	mW/K	> 100	
Resolution, digital	µW	0.25	
Operation via PC		✓	
PC including software		✓	
CE conformity		✓	
Permitted environmental temperature	°C	+5 to +30	
Permissible relative humidity	%	max. 70 non-condensing	
Dimensions of measuring device (width x depth) footprint	mm	ca. 350 x 510	
Weight	kg	ca. 23	
Voltage data		115/230 V, 50/60 Hz	
<p>✓ included      + available/optional      O eligible      - not available      * available upon request</p>			