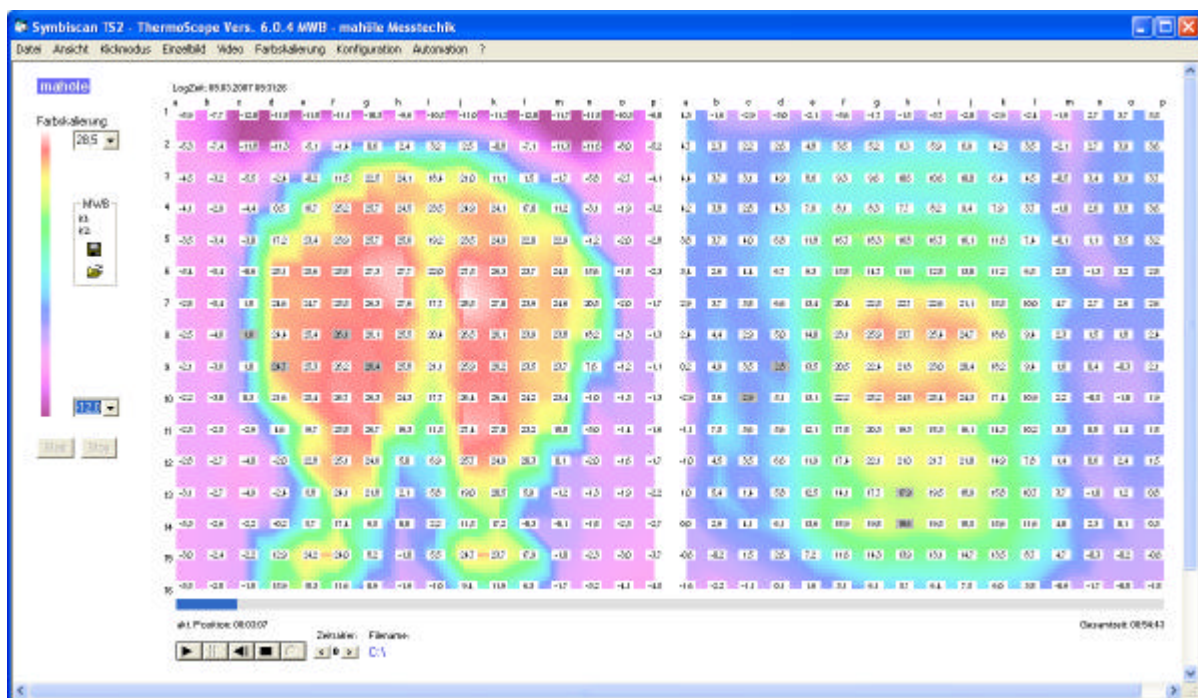
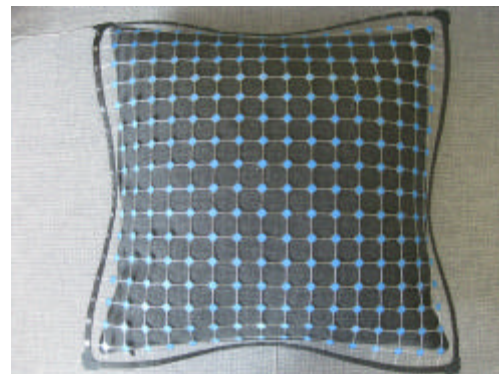
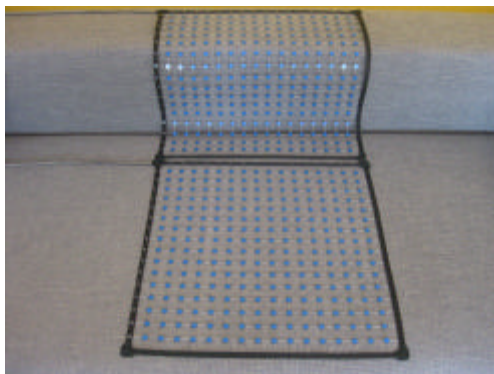


mahöle

SYMBISCAN TS2e

Thermographic Data Acquisition System

DATASHEET





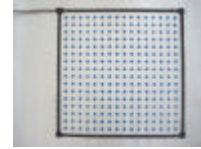
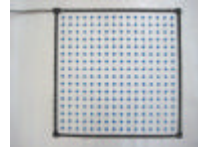
1.1 Product Specifications:

Acquisition-Module:		
	Number of Input Channels	2 (K1, K2)
	Max. Sensor-number / Ch	16 x 16 = 256 Sensors per channel
Physical Dimensions:		
	Aluminium Case (BxHxD)	110 x 37 x 216 mm
	T-Measuring Matrix	Dependent on customer requirements see „Technical Data of T-Measure-Mat “
Supply:		
	Supply-Voltage	5V (supplied over USB-Port of PC)
	Power requirements	ca. 1,5 W
Interface to PC:		
	USB	2.0
Accuracy of measurement ¹ :		
	Acquisition Speed	ca. 1.5 sec. per channel
	Temp. Range Standard	10 °C to 60 °C
	Temp. Range Extended	-25 °C to 80 °C
	Resolution	+/- 0,01 K
	Relative Accuray	better +/- 0,3 K
	Absolute Accuray ²	better +/- 0,9 K
	Temperature Drift	< 0,3 K / Year
Climatic Operation Conditions of Acquisition-Module:		
	Nominal Temperature:	23 °C
	Temperature Range:	0 °C to 45 °C
	Relative Humidity:	0 % to 95 % (non-condensing)
Climatic Storage Conditions of Acquisition-Module:		
	Storage Temperature:	-10 °C to 60 °C
	Relative Humidity:	0 % to 95 % (non-condensing)
Weight (without T-Matrix):		
	Netto Weight:	1,5 kg
	Shipping Weight:	2,0 kg

to 1: Valid till one year after calibration of complete system (Acquisition-Module and T-Matrix), at 23 °C ambient temperature of acquisition system

to 2: for dT between greatest and lowest acquired temperature < 60K

1.2 Technical data T-Measure-Mats



Type:		
	TEM-4e (Two pieces)	16 x 16 Matrix
Physical Dimensions:		
	T-Matrix	55 cm x 55 cm / Piece (Measurement Range 48 x 48 cm)
Climatic Operation Conditions:		
	Temperature Range:	-25 °C bis 80 °C
	Relative Humidity:	0 % to 95 % (non-condensing)
Climatic Storage Conditions:		
	Storage Temperature:	-10 °C to 60 °C
	Relative Humidity:	0 % to 95 % (non-condensing)
To observe:		
<p>Measure-Mat: Avoid Contact with liquids!!! (slightly dewing is allowed)</p> <p>Don't crease connection cables between sensors</p> <p>Don't crease Mat-border (labeled row-/column line)!</p> <p>Violation of specified temperature range causes irreparable damage of T-Measure-Mat</p> <p>If not in use, store T- Measure-Mat on a plane surface or on a reel with ($\varnothing > 20\text{cm}$) and away of direct solar radiation.</p> <p>Please don't bond tapes directly over sensors or marker!</p> <p>Don't fix Mat-border relative to T- Measure-Mat inflexible, to avoid tensile load of steel cable at Mat-border</p> <p>Please note that the minimum bending radius (8cm) of cable between T-Mat and acquisition device!</p> <p>No suitable for operation during loadtests with Seat-Test-Robots or similar</p>		

Disregarding of above-noted rules or violation of specified ranges leads to loss of warranty claim!

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury or financial loss!