



Training in thermal imaging and non-contact temperature measurements

Overview

The DB-THERMO board is an indispensable device during any training on contactless temperature measurements and thermal imaging with the use of thermographic cameras. DB-Thermo helps to understand the phenomena related to the emissivity of different materials and the influence of surface type on temperature measurement.

The DB-THERMO set includes instructions describing all topics concerning thermal imaging.

The device is enclosed in a solid briefcase housing with a detachable cover.

DB-THERMO has a heating panel with an emissivity of 0.98 as well as plates made of various typical materials, with matte and polished surfaces. A programmable controller keeps watch over the temperature of the heating panel. The user may select a temperature from within the range of 40...60°C. The LED display reads the current panel temperature.

Emissivity of main plate (110 x 110 mm)

Material	Polished	Matte
Blackened aluminum	-	0.98

Emissivity of materials (70 x 30 mm plates)

Material	Polished	Matte
Copper	0.03	0.20
Aluminium	0.10	0.30
Brass	0.04	0.33
Polycarbonate	0.88	0.91
Glass	0.84	0.90
Stainless steel	0.12	0.39



Protective plate



Solid case

Specifications

Standard accessories

Basic technical data

Heating panel temperature

Regulation range	40°C...60°C
Reading accuracy	±2%
Resolution of readings	0.1°C
Resolution of settings	1°C
Hysteresis	±1.5°C
Temperature stabilization time	<5 min
Heating panel dimensions	275 x 110 mm
Display	LED
Power supply	24 V DC
Power consumption	max. 100 W
Thermal protection	85°C

Safety and work conditions

Ingress protection	IP20
Type of insulation according to EN 61010-1	CAT II 300 V
Operating temperature	10...+40°C
Storage temperature	-20...+70°C
Dimensions	330 x 260 x 140 mm
Weight	ca. 0.5 kg

Other information

Quality standard – development, design and production	ISO 9001
--	----------



Heating panel protective plate

WAPOZOSL3



Power supply 24 V DC / 4 A

WAZASZ31



User manual

