

# THERMO-DOS

Mixing and  
dispensing  
system

THERMO-DOS is an add-on unit to heat up the casting compounds for the 2-K-DOS and 2-K-MiniDOS mixing and dispensing devices. It makes it possible to reduce the viscosity level of high-viscosity casting compounds to a point at which the devices can process the compounds and the compounds can also flow into narrow gaps in the products that are to be sealed.



**Fritz Giebler GmbH**  
Development and  
production of devices  
and control systems

# THERMO-DOS

## Mixing and dispensing system

### Application

The 2-K-DOS and 2-K-MiniDOS mixing and dispensing devices can process polyurethane and epoxy casting compounds with viscosities up to around 20.000 mPas at room temperature. Casting compounds, particularly epoxy and polyurethane, develop lower viscosities at higher temperatures. An increase in temperature of 10° C reduces the viscosity by approximately a factor of 2. The THERMO-DOS heating option reduces the viscosity to such an extent that it is possible to process casting compounds with viscosities up to approximately 80,000 mPas.

For casting compounds that can be dispensed at room temperature but that flow poorly or too slowly into the parts to be sealed, the heating reduces the viscosity to such an extent that such compounds can be processed more quickly during sealing and the compounds can also flow into narrow gaps in the parts that are to be sealed.

### Function of the device

With the THERMO-DOS option, the two material containers, the pumps, the dispensing hose and the dispensing head are heated. The modules are heated individually with temperature control.

The temperature is adjusted centrally at the heating control unit. If more heating is required for large material containers, a heating sleeve can additionally be placed around the container. A heater is also available for the mixing nozzle. This ensures that the casting compound is always available in a heated and low-viscosity form at the mixing nozzle without a lead time, even after a device standstill or interruption in the sealing work.

### Technical specifications:

Temperature setting:	20 – 60° C
Temperature steps:	5° C
Temperature regulation:	Two-point regulator for each module
Control accuracy:	+/- 2° C
Dimensions of control device:	Width x depth x height = 225 x 270 x 95 mm
Weight:	6.1 kg
Line voltage:	230 V
Max. heating output of the THERMO-DOS:	500 VA
Max. output of the heating sleeve:	450 and 600 VA
Mark of conformity:	CE



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