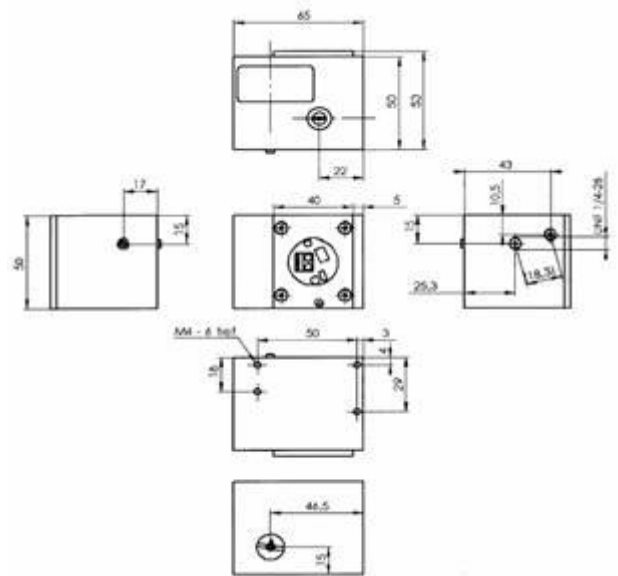
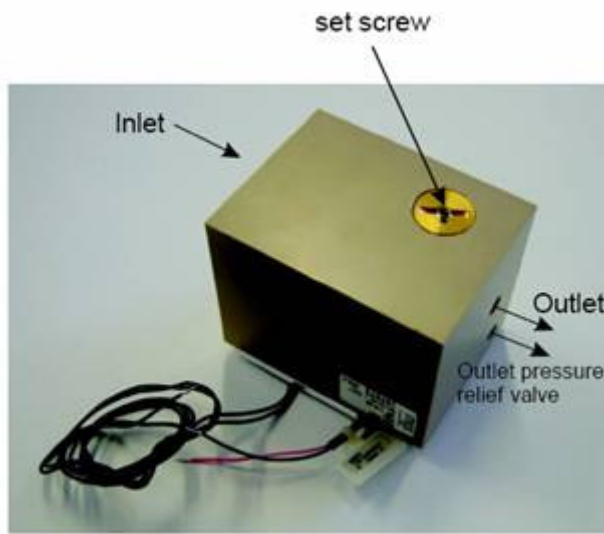


Mikroglas - sensor block

mikroglas chemtech GmbH develops and manufactures microtechnological products made of glass (FOTURAN). The material glass makes the reactor modules resistant against aggressive media. For this reason the material properties of the sensor were adapted to the system. Sensor block with integrated pressure- and temperature sensor is used to monitor the media supply of the micro reactor. Thereby the pressure and the temperature is measured directly in the liquid flow. The sensor block contains in addition a non return valve and the pressure relief valve. With the help of a set screw the pressure relief valve can be adjusted manually to a limit value.



Specifications	
Housing material	PEEK
Contacting material	Glass, Aluminium oxide ceramic (99% Al ₂ O ₃), Simriz, FFKM, Kalrez
Volume flow	approx. 550 l/h gasflow at 1 bar inlet pressure and free outflow
Internal volume	1.0 ml
Temperature range	-40°C up to +125°C
Temperature sensor	Pt 100 [DIN EN 60751 (ITS90)]
Pressure sensor:	
Measurement range	0...10 bar
Auxiliary energy	12...30 V DC
Output signal	4...20 mA
Compensating temperature	-40°C ...+80°C
Characteristic curve	linear
Outer dimension	50 mm x 50 mm x 65 mm
Connections	by ready-made Teflon tubes (UNF thread 1/4")

Developed in cooperation with Buerkert GmbH & Co. KG