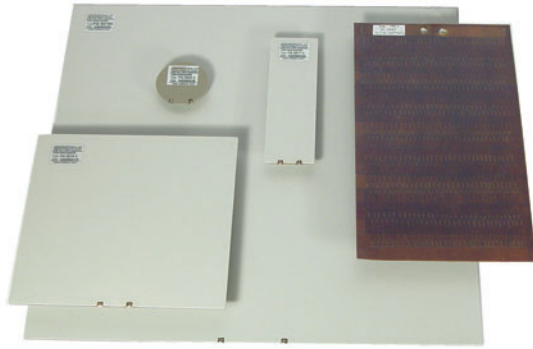


# TEMPERATURE

## Heat Flow Plates Type FQ90xxx



### Technical Features:

- ▶ For determining the heat flow density up to max. 150°C.
- ▶ Application-oriented designs, consisting of a meander of opposing thermocouples that are embedded in a substrate.
- ▶ In case of thick substrates no lateral circulation of the heat flow because of sufficient meander shell zone.
- ▶ Software for k value measurement, see page 06.07.



Each heat flow plate has been assigned a calibration value, which corresponds to the heat flow density in  $W/m^2$  when the plate provides an output of 1mV. The calibration value will be stored as factory-setting in the ALMEMO® connector so that ALMEMO® devices will immediately indicate the current heat flow density in  $W/m^2$ .

### Types:

Model	Application	Order No.
117	for even surfaces, e.g. casement sections	<b>FQA017C</b>
118	for universal applications, e.g. solar-electric systems and insulating plates	<b>FQA018C</b>
119	especially for constructional industry, brickwork insulating plates, old buildings	<b>FQA019C</b>
120	small heat flow plate, e.g. for medicine, veterinary medicine, small components etc.	<b>FQA020C</b>
117 SI	flexible heat flow plate, suitable for even surfaces, e.g. casement sections	<b>FQA017CSI</b>
118 SI	flexible heat flow plate, suitable for even surfaces, e.g. solar-electric systems and insulating plates	<b>FQA018CSI</b>
150-1	flexible heat flow plate, particularly suitable for high temperatures e.g. for brickwork, insulated boilers and pipes	<b>FQA0801H</b>
150-2	particularly suitable for high temperatures, especially for the construction industry, masoned walls and insulating plates	<b>FQA0802H</b>

### Technical Data:

Type	Dimensions (mm)	Meander Size (mm)	Substrate	Temperature Stability	Calibr. Val. approx. ( $W/m^2 \approx 1\text{ mV}$ )	Accuracy of Calibr. Value
117	100 x 30 x 1.5	80 x 20	epoxy resin	80°C	< 50	5% at 25°C
118	120 x 120 x 1.5	90 x 90	epoxy resin	80°C	< 15	5% at 25°C
119	250 x 250 x 1.5	180 x 180	epoxy resin	80°C	< 8	5% at 25°C
120	33 Ø x 1.5	20 Ø	epoxy resin	80°C	< 150	5% at 25°C
117SI	100 x 30 x 3	80 x 20	silicone	80°C	< 50	5% at 25°C
118SI	120 x 120 x 3	90 x 90	silicone	80°C	< 15	5% at 25°C
150-1	180 x 100 x 0.6	170 x 90	Teflon	150°C	< 80	5% at 25°C
150-2	500 x 500 x 0.6	490 x 490	Teflon	150°C	< 10	5% at 25°C

### Accessories:

Heat-conducting paste	Order No. ZB9000WP
Scotch tape for room temperature	Order No. ZQ9017KB
Self-adhesive film 24 x 100cm for room temperature	Order No. ZQ9017KF

01/2007 We reserve the right to make technical changes.