

# Datasheet

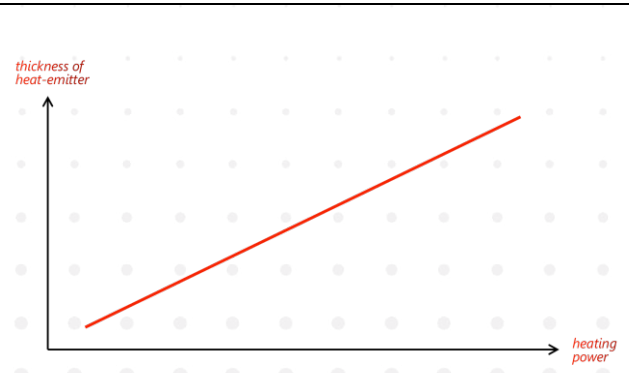
## Heat-Emitter HEC001-120-200A

*Foil based heat-emitter – flexible, thin, free in design and shape  
no hot spot, can be used with low voltage sources*

Foil emitter with integrated flatly heat-emitter element on a carbon basis. With the accensors foil based heat-emitter, high heating power can be achieved with harmless low voltages from 12V or 24V up to 230V for heating applications with high power density. Compared to conventional resistance heating, accensors heat-emitter distributes the heat absolutely evenly and without hot spots.

accensors 5mm x5mm Heat-Emitter on PEN foil material



| Specifications of the heat-emitter  |  | emitter performance   |          |
|---|--|---|----------|
| <ul style="list-style-type: none"> <li>Temperature operating range</li> </ul>       |  | <ul style="list-style-type: none"> <li>T90<br/>from 20°C to 30°C<br/>heat area = 39.000mm<sup>2</sup><br/>thickness = 220µm<br/>heating power = 12V DC, max. 5.0 A</li> </ul> | 9,8 sec. |
| short-term  | depending on the foil material (-30°C to 120°C)  |   |          |
| permanent   | 120°C  |   |          |
| <ul style="list-style-type: none"> <li>flexibility limit</li> </ul>                 |  | <u>Correlation of layer thickness to emitter performance</u>  |          |
| one-time bending/kinking  | not smaller than 1mm radius<br>IMPORTANT: depending on the layer thickness of the heat-emitter |   |          |
| permanently flexible bends  | >1.000 change at 5mm radius<br>IMPORTANT: depending on the layer thickness of the heat-emitter |   |          |
| <ul style="list-style-type: none"> <li>Can be used in medium/environment</li> </ul> |  |   |          |
| tested  | Air, Water, Cell culture medium  |   |          |

