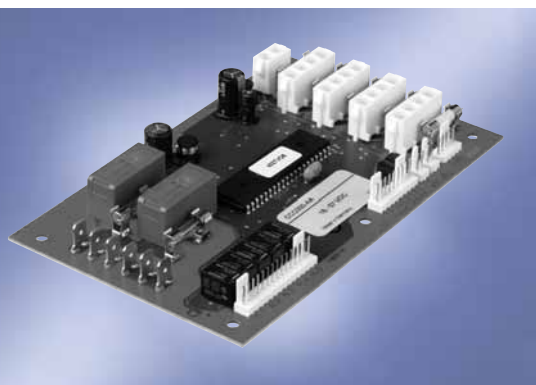


HMS controller

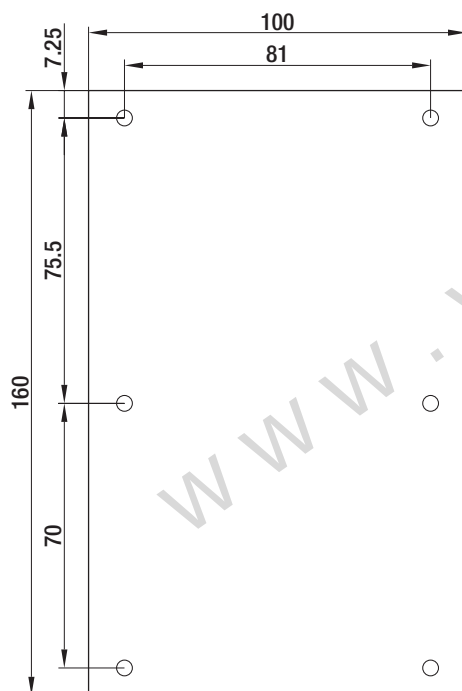


- **General remarks:** The HMS controller is governed by a microprocessor and is specifically designed for Heat Management Systems (= HMS). This controller allows for an almost limitless programming variety as regards customer-specific fan speed / temperature profiles. Moreover, this controller offers a multitude of the most diverse alarm configurations. Our HMS controller has been specially designed and adjusted to the product range of ebm-papst in Mulfingen. Thus, any size of our fans or blowers can be used. The most diverse of applications needing temperature-dependent control are possible. Among these are applications in telecommunication and the IT industry, in refrigeration and air-conditioning as well as in specific industrial plants and systems.

Nominal data	Supply voltage	Power input ⁽¹⁾ , max.	Power input ⁽²⁾ , max.	Current draw ⁽¹⁾ , max.	Perm. amb. temp.	Mass
Type	VDC	W	W	A	°C	kg
CCC 000-AA05 -03	16-57	10	130	0.175	-40 to +70	0.15

subject to alterations

(1) without fans (2) per fan at nominal voltage



Features:

- 4 fan speed / temperature characteristics that can be programmed independent of each other
- 2 programmable no-frost relays for connection of 115/230 VAC heating devices
- 5 programmable alarm relays (with time lag):
 - Temperature alarm (over- / under-temperature)
 - Fan good / bad alarm programming
 - Temperature sensor alarm
 - Programmable depending on signal inputs
- 4 programmable status outputs (with time lag):
 - With "open collector" design to connect optical or acoustic displays / alarms
 - Each fan speed can be set individually
- 4 signal inputs for external switch
- Connection of two independent temperature sensors (NTCs) possible
- RS232 interface galvanic insulated
- Selective protection of each fan
- programming via Windows software (terminal program version 15 ff.: part no. 25710-2-0199)

Requirements:

- Supply voltage of HMS controller: 16-57 VDC
- Fans with standard interface
 - 24 / 48 VDC fan voltage
 - PWM / linear control input (0-10 V)
 - Open collector tach output
- NTC with $R_{25} = 33 \text{ k}\Omega$ (EPCOS type M 891/33K/J)
- System requirements: Windows 2000 / XP

Safety: According to EN 50178

- **EMC / EMI:** Interference immunity EN 61000, interference emission EN 50081-1

