

# DADCM

## Analog to digital converter



DADCM are DIN rail mounted analog to digital (Modbus RTU) converter modules supplied via Power over Modbus. The DADCM/08 product version has four analog / modulating and four analogue inputs while the DADCM/44 version has four analog / modulating inputs and four temperature inputs. The type of input is selected via Modbus RTU communication. The input values are transferred to Modbus RTU.

### Key features

- 24 VDC / 1 W supply voltage, Power over Modbus (PoM)
- Easy to connect via two terminal blocks or two Modbus RTU RJ45 connectors on the PCB
- DIN rail mounted
- Enclosure: plastic ABS, UL94-V0, grey RAL 7035

### Area of use

- BMS and controlled ventilation systems
- Clean air and non-aggressive, non-combustible gases
- For indoor use only

### Article codes

Article code	Number of analog / modulating inputs	Number of analog inputs	Number of temperature inputs	Modbus RTU
DADCM/08	4	4	0	yes
DADCM/44	4	0	4	

### Technical specifications

<b>Supply voltage</b>	24 VDC / 1 W, Power over Modbus (PoM)		
<b>Maximum power consumption</b>	0,96 A		
<b>Average power consumption in normal operation</b>	0,72 A		
<b>Imax</b>	40 mA		
<b>Consumption</b>	35 mA		
<b>DADCM/08</b>	4 analog / modulating inputs	0–10 VDC / 0–20 mA / PWM (frequency: 1–5 kHz, amplitude: 2–10 VDC)	
	4 analog inputs	0–10 VDC / 0–20 mA	
	Input impedance	150 kΩ	
<b>DADCM/44</b>	4 analog / digital inputs	0–10 VDC / 0–20 mA / PWM (frequency: 1–5 kHz, amplitude: 2–10 VDC)	
	4 temperature inputs	PT500 or PT1000	
	Input impedance	150 kΩ	
<b>Protection standard</b>	IP30		
<b>Ambient conditions</b>	Temperature	-5–65 °C	
	Relative humidity	5–85 % rH, non-condensing	

### Global trade item numbers (GTIN)

Packaging	DADCM/08	DADCM/44
<b>Unit</b>	05401003000632	05401003000649
<b>Box</b>	05401003000632	05401003500170



### Wiring and connections

<b>DADCM/08</b>	Ai1–Ai4	Analogue / modulating inputs
	AGND	Ground for analogue / modulating inputs
	Ai5–Ai8	Analogue inputs
	AGND	Ground for analogue inputs
<b>DADCM/44</b>	Modbus RTU communication, signal A	Analogue / modulating inputs
	Modbus RTU communication, signal /B	Ground for analogue / modulating inputs
	Modbus RTU communication, signal /B	Temperature inputs (PT500 or PT1000)
<b>Connections</b>	Ground, supply voltage	1,5 mm2
	Ground, supply voltage	3,5 mm

### RJ45

<b>24 VDC</b>	Supply voltage, 24 VDC
<b>GND</b>	Ground
<b>A</b>	Modbus RTU communication, signal A
<b>/B</b>	Modbus RTU communication, signal /B



### Standards

- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC: EN 61000-6-2: 2005/AC:2005, EN 61000-6-3:2007/A1:2011/AC:2012, EN 61326-2-3:2013
- RoHS Directive 2011/65/EC
- DIN rail EN 60715:2001 compatible: EN 60730-1:2011

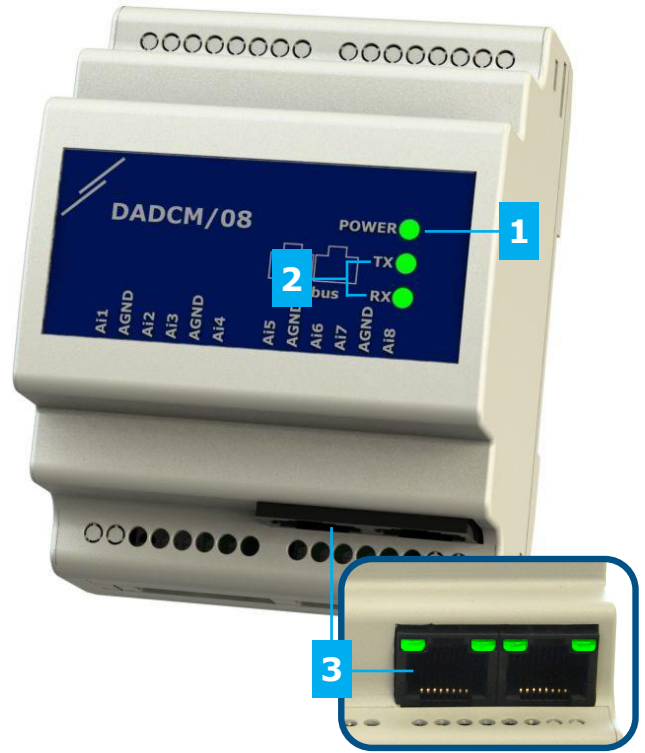


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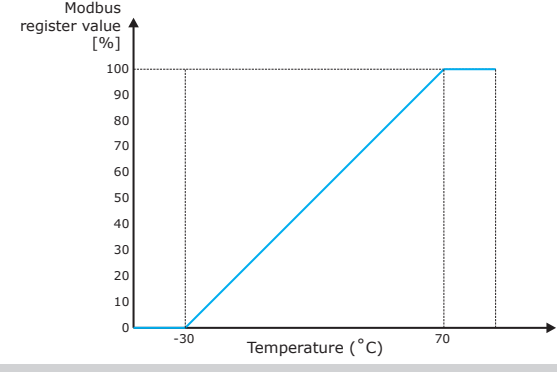
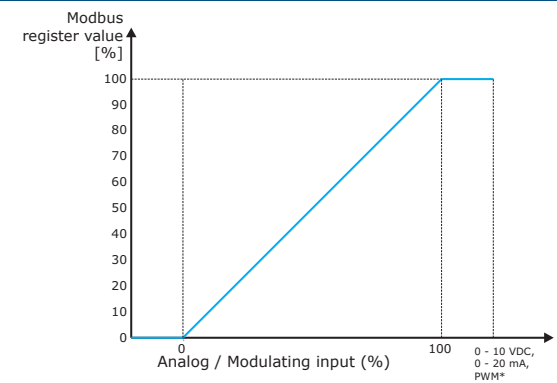


### Settings and indications



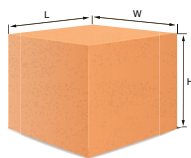
1 - Power ON LED indication	On	The unit is supplied
2 - TX and RX LEDs	Blinking	Active Modbus communication (TX - transmitting; RX - receiving)
3 - RJ45 connectors		Plug the communication and power cable into the socket. Blinking LEDs indicate active Modbus RTU communication

### Operational diagrams



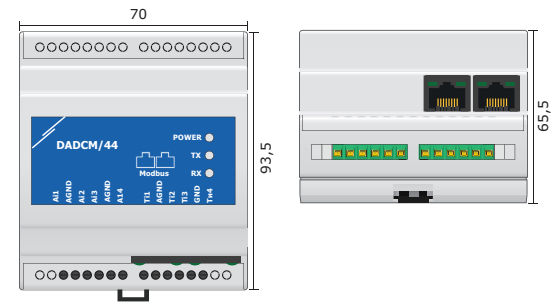
— Modbus output value (%)  
\* Available in Ai1—Ai4 only

### Packaging

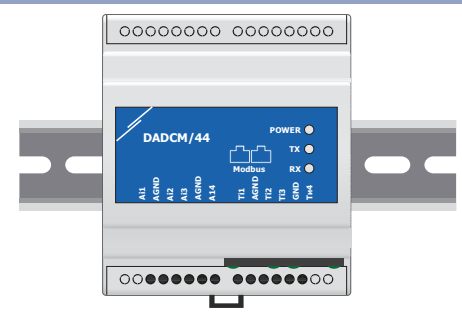


Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
DADCM	Unit (1 pc.)	96	72	81	0,129 kg	0,166 kg
	Box (66 pcs.)	590	380	280	8,51 kg	11,87 kg

### Fixing and dimensions



### DIN-rail mounting



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## Application example

