MR12 AIN additional board

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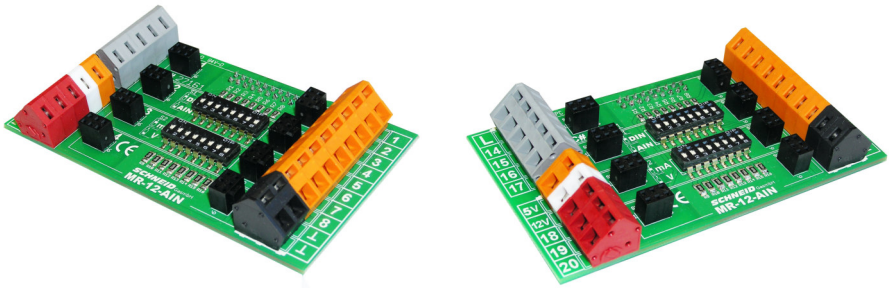
Products, data sheets, documentation, MR12-SCHEMA-calculator: www.schneid.at

SCHNEID MR12 AIN additional board

Expansion board with 8 analog inputs 0-10V or 0-20mA

Order number:	**190.16905**
Order code:	**MR12 AIN-Zusatzplatine**



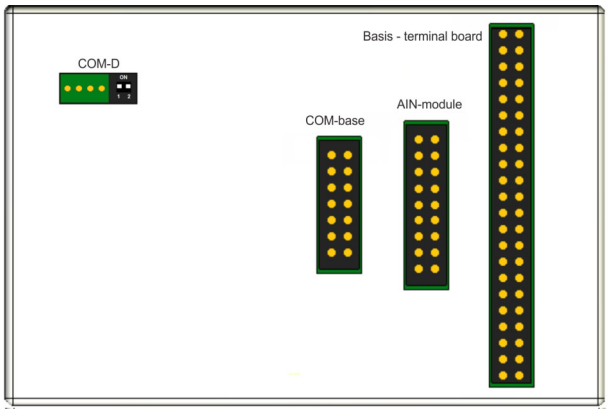
Overview:

The add-on module extends the module controller MR08 / MR12 by analog and digital inputs and outputs.

Use cases:

- Detection of supply and return pressure in heating systems
- External setpoint specification via 0-10V signal (the 10V value can be calibrated on the temperature
- side in the controller)
- External request (setpoint adjustable by parameter)
- Speed output for pumps or valve control

  By using different plug-in modules, the following output signals are possible:
  - Relay output 230V
  - Relay output floating
  - TRIAC output
  - PWM signal
  - 0-10V
- Leak warning systems

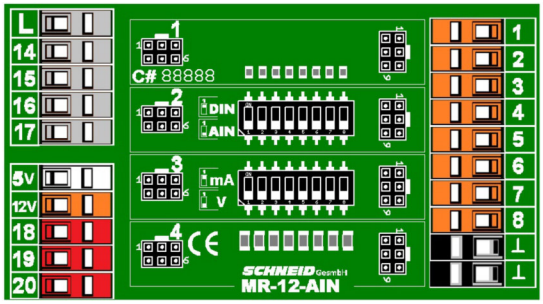


The AIN module is connected directly to the back of the controller using a ribbon cable.

Terminal plan:

GND Signalground
Terminal 14: **AOUT 1** District heating valve
Terminal 15: **AOUT 2** Base C / Circuit 1
Terminal 16: **AOUT 3** Base D / Circuit 2
Terminal 17: **AOUT 4** Circuit 3

VCC +5V: Supply 5V
VCC +12V: Supply 12V
Terminal 18: **DOUT 1** Leak warning
Terminal 19: **DOUT 2** RESET
Terminal 20: **DOUT 3** Reserve



Terminal1: **AIN 1** 0-10V Circuit1
Terminal 2: **AIN 2** 0-10V Circuit 2
Terminal 3: **AIN 3** 0-10V Circuit 3
Terminal 4: **IN 4**
Terminal 5: **IN 5**
Terminal 6: **IN 6**
Terminal 7: **IN 7**
Terminal 8: **IN 8**

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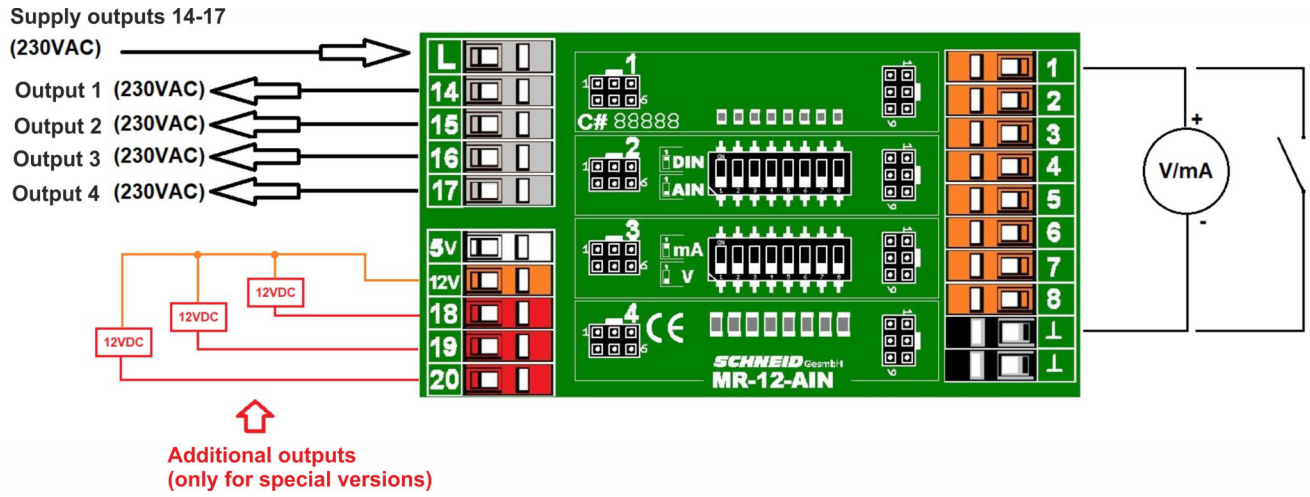
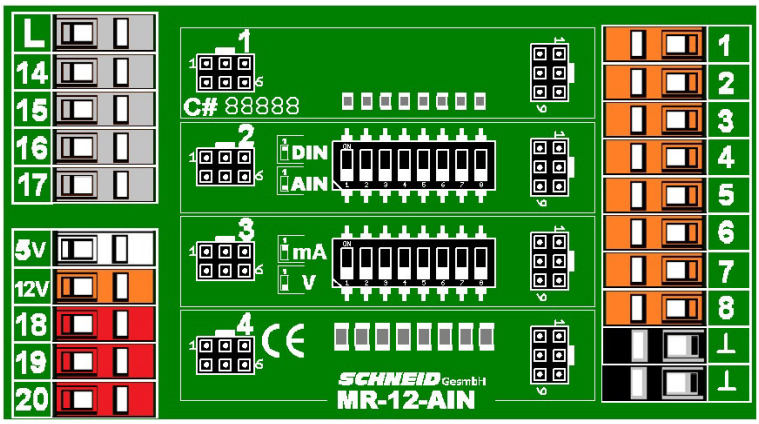
Signal connections:

Connections inputs (right side)
1 - Input 1 (digital, 0-10V or 0-20mA depending on the configuration) ext. Setpoint specification HK1
2 - Input 2 (digital, 0-10V or 0-20mA depending on the configuration) ext. Setpoint specification HK2
3 - Input 3 (digital, 0-10V or 0-20mA depending on the configuration) ext. Setpoint specification HK3
4 - Input 4 (digital, 0-10V or 0-20mA depending on the configuration)
5 - Input 5 (digital, 0-10V or 0-20mA depending on the configuration)
6 - Input 6 (digital, 0-10V or 0-20mA depending on the configuration)
7 - Input 7 (digital, 0-10V or 0-20mA depending on the configuration)
8 - input 8 (digital, 0-10V or 0-20mA depending on configuration)
GND-Signalground
GND-Signalground



Output connections (left side)
L - infeed plug-in modules (230VAC)
14 - Output module slot 1 (230VAC)
15 - Output module slot 2 (230VAC)
16 - Output module position 3 (230VAC)
17 - Output module slot 4 (230VAC)

+5 - output terminal 5 VDC (max 200mA)
+12 - output terminal12VDC (max 200mA)
18 - D-Out LWG (switching output 12V)
19 - D-Out RESET (switching output 12V)
20 - D-Out RES (switching output 12V)



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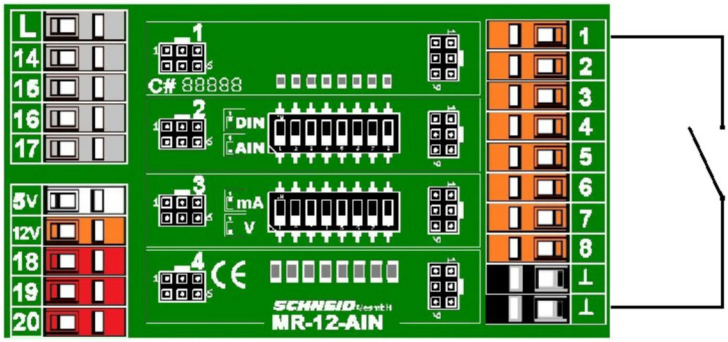
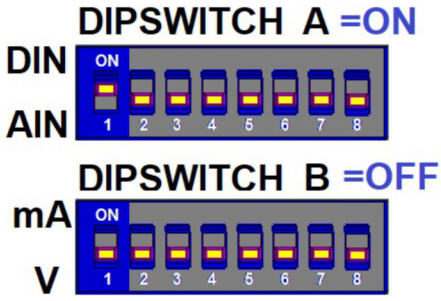
Configuration:

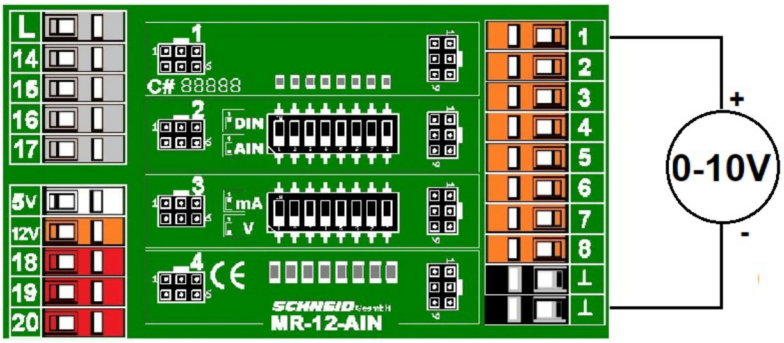
There is one pair of configuration switches for each signal input (1-8).
The following graphic only refers to the first input.
Switch pairs 2-8 must be used for the other inputs.

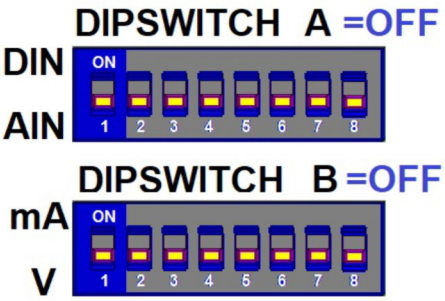
Configuration as digital input



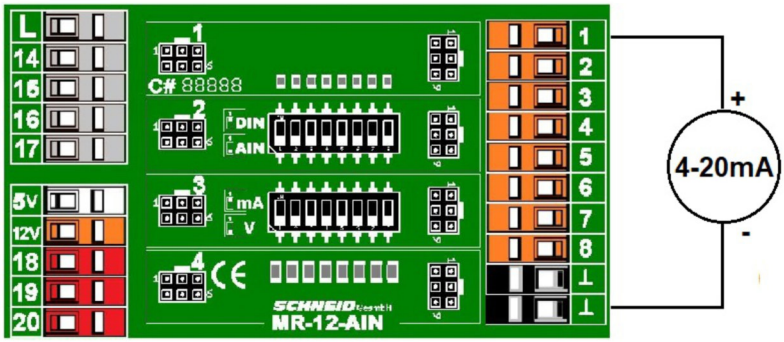


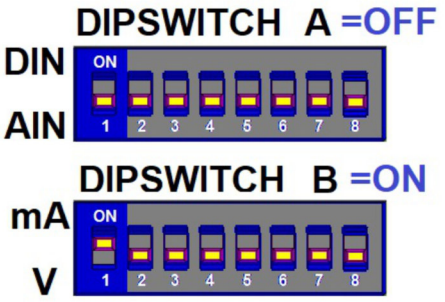
Configuration as 0-10V input





Configuration as mA input





Scope of delivery:

SCHNEID MR12 AIN additional board with 8 analog inputs 0-10V or 0-20mA and ribbon cable 800mm.
- WITHOUT plug-in modules - depending on the desired function, these have to be selected yourself.

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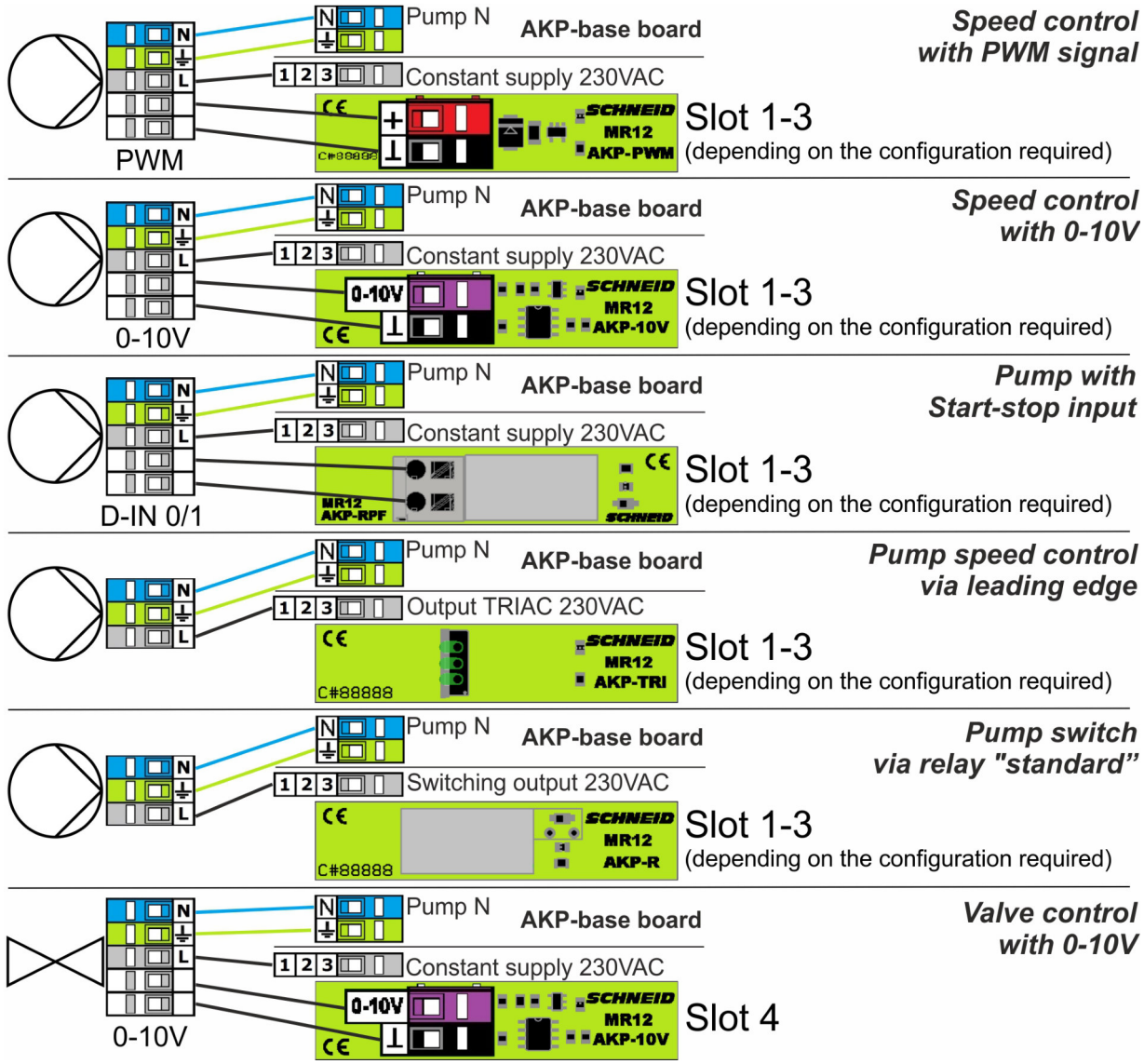

Technical specifications:

Intrastat number:	8537.10.91.90
Country of origin	EU/AT
Height, width, depth (in mm)	55x100x24
Weight (in kg)	0.108 (incl.cable 800mm)
Protection class	IP00
Ambient temperature	0°C....+40°C
Operating voltage	12VDC
Power consumption	< 0,1W
Connection type	Fixed wiring terminals

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