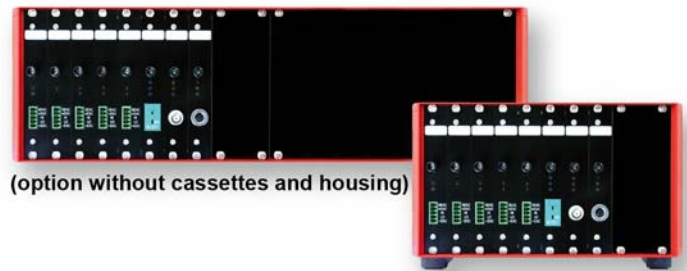


## ■ AMS42/84-EXT8

### 8-channel extension for AMS systems

You want more. You get it.

Equip your AMS system by additional 8 channels available at the back of the device. Up to 8 AMS cassettes with 5B modules can individually be chosen for the installation in the AMS system (not included with delivery).

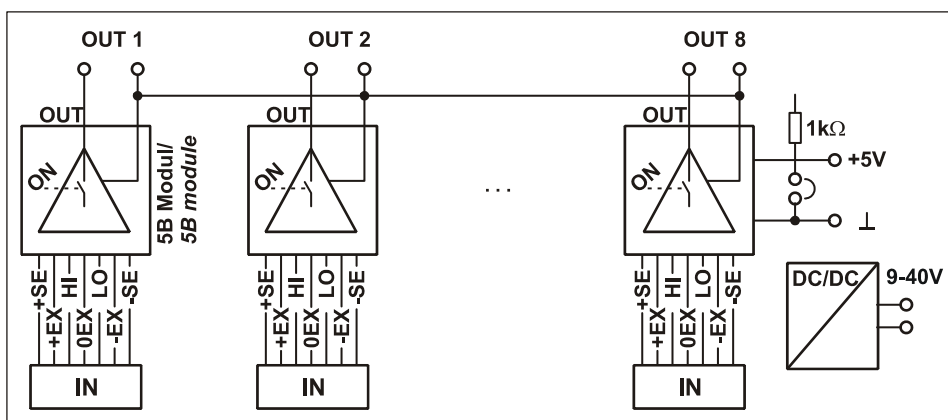


### Versions. For large and small.

The extension AMS42-EXT8 is available for all 1/2 x 19" tabletop units of the AMS42 series. The option AMS84-EXT8 is installable in the 19" rack system AMS84. With 2x AMS84-EXT8 installed, the 16-channel amplifier system can be extended to a maximum of 32 channels in total.

### Mounting. We'll take care of it.

To install the option AMS42/84-EXT8, an additional backplane is integrated in the AMS system. This is done directly ex works on purchase of an AMS system. Otherwise, please send the device to bmc for a retrofit - and we will do the rest.



Functional diagram

## 1 Supplementary products for AMS42/84-EXT8

### 1.1 5B modules (MA series)

The 5B measuring amplifiers from bmcM allow for the professional signal adjustment to a data acquisition system. The amplifier output is  $\pm 5V$  or  $0..5V$ . Most of the modules are electrically isolating and provide sensor supply.



### 1.2 Plug-in cassettes (AMS-K series)

The extension AMS42/84-EXT8 can be individually equipped with 8 plug-in cassettes. Each cassette is equipped with the relevant 5B module and suitable input connector. The suitable input connector on the front panel guarantees for the relevant connection to be available when exchanging the cassette.



## 2 Important notes for using the AMS42-EXT8, AMS84-EXT8

- The extension is only suitable for extra-low voltages - please observe the relevant regulations! For reasons relating to EMC, it must only be used in closed PC housings.
- Only use an electrical isolated power supply unit (with CE).
- Only use non-solvent detergents for cleaning. The product is designed to be maintenance-free.
- Use shielded cables for reasons relating to CE. Connect the shield to ground at one end only. Close open inputs if possible.
- When mounting the cassettes, a connection between power supply ground and chassis of the device is made via the module screw.
- The device must not be used for safety-relevant tasks. With the use of the product, the customer becomes manufacturer by law and is therefore fully responsible for the proper installation and use of the product. In the case of improper use and/or unauthorized interference, our warranty ceases and any warranty claim is excluded.



Do not dispose of the product in the domestic waste or at any waste collection places. It has to be either duly disposed according to the WEEE directive or can be returned to bmcM at your own expense.

## 3 Technical data

(typical at 20°C, after 5min., +24V supply)

### • Electrical data

Power supply:	+9..40V DC, $\pm 5\%$ , min 3W, max. 20W (depends on number of 5B modules used)
Galvanic isolation:	depends on the 5B modules used
Max. permissible potentials:	60V DC acc. to VDE

### • General data

AMS42-EXT8:	extension of the AMS42 system to a maximum of 16 channels in total; available for: AMS42, AMS-LAN16f, AMS42-USB; accessible at the back of the device
AMS84-EXT8:	extension of the AMS84 to a maximum of 32 channels in total if option is integrated twice; available for: AMS84; accessible at the back of the device
Signal connection:	different connectors (Phoenix, Binder, BNC, Thermo) on the front panels of the cassettes
CE standards:	EN61000-6-1, EN61000-6-3, EN61010-1; for decl. of conformity (PDF) visit <a href="http://www.bmcM.de">www.bmcM.de</a>
ElektroG // ear registration:	RoHS and WEEE compliant // WEEE Reg.-No. DE75472248
Protection:	IP20
Temperature ranges:	operating temp. -25..50°C, storage temp. -25..70°C
Relative humidity	0-90% (not condensing)
Warranty:	2 years from date of purchase at bmcM, claims for damages resulting from improper use excluded

### • Available accessories

AMS-K-BIN5:	cassette and front panel with 5-pin Binder socket (712 series)
AMS-K-BLANK:	blank panel
AMS-K-BNC:	cassette and front panel with BNC female
AMS-K-CO5:	cassette and front panel with 5-pin terminal connector
AMS-K-THK:	cassette and front panel with thermocouple socket (type K)

Manufacturer: BMC Messsysteme GmbH. Subject to change due to technical improvements. Errors and printing errors excepted. Rev. 1.0 12/04/2012