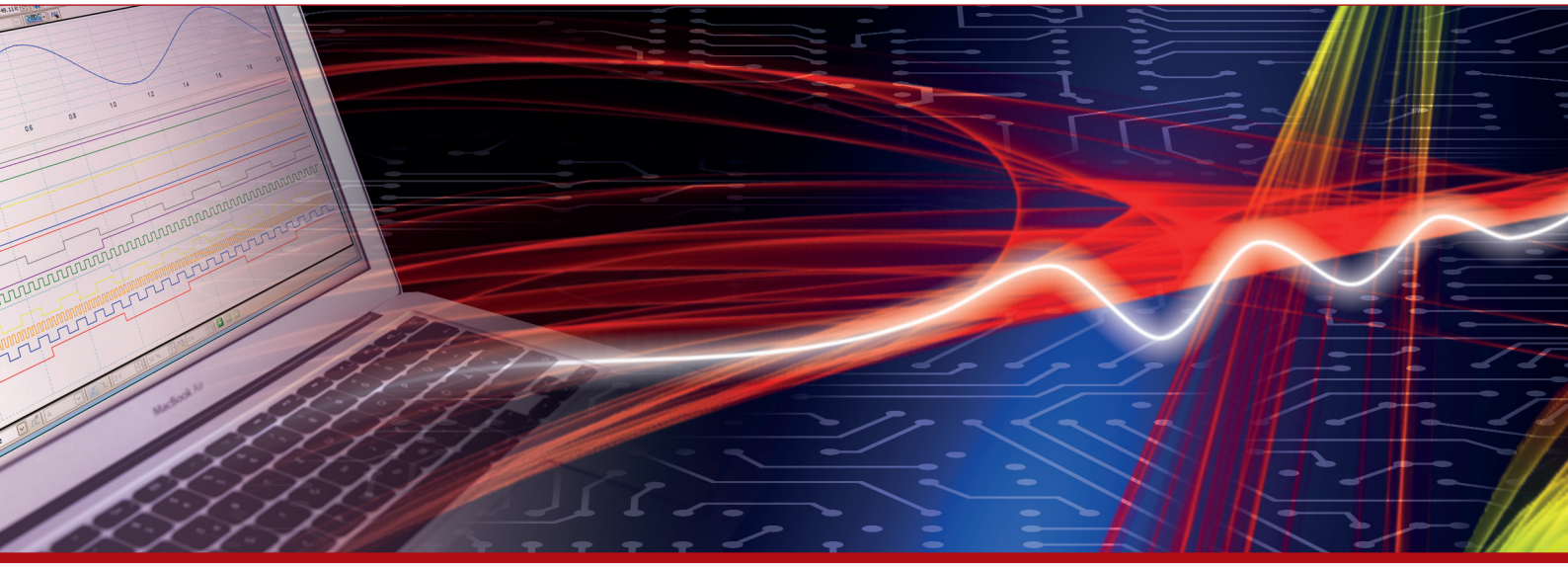
Product Datasheet - Technical Specifications



More information in our Web-Shop at ▸ **www.meilhaus.com** and in our download section.

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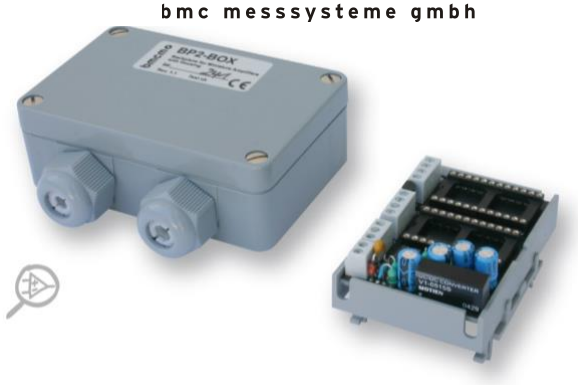


BP2

Backplane for MAL measuring amplifiers

For measuring amplifers and sensors. Get connected.

Backplane for miniature amplifiers: Up to two measuring amplifiers, converters, or any other function modules can be integrated in the BP2/ BP2-BOX. If installed close to the signal, it provides for high interference resistance. Ideal for remote signal conditioning of passive sensors.

Signal conditioning in miniature format.

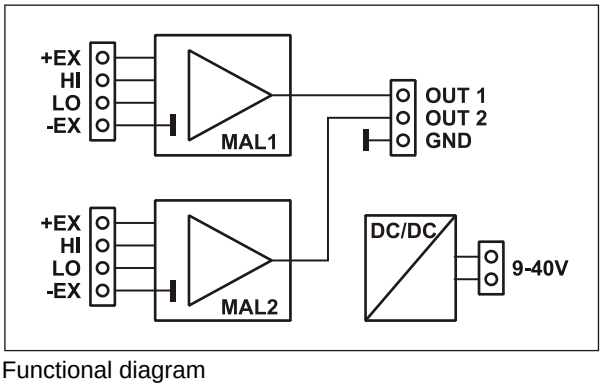
In type of construction, the cost-effective MAL modules are designed like a 24-pin DIL IC. Measurement applications can therefore be realized even in problematic locations. The great variety of available amplifier modules allows for the solution of the most individual measuring tasks - individual, compact, and simple.

Well supplied.

The BP2/BP2-BOX is operated with 9-40V. The supply voltage is connected via screw-clamp terminals. The integrated amplifiers are supplied by the electrically isolated power supply.

Signal connection. Clamp. Screw. Ready.

Sensors or other voltage signals can comfortably be connected via 4-pin spring terminal blocks.



Functional diagram

Connection to the DAQ system.

The amplifier outputs are available at a 3-pin screw terminal connector. They are connected to the input lines of a data acquisition system. Combining the BP2/BP2-BOX with a measuring card or DAQ system from bmcm makes an extreme compact measurement system.

Temperature reference.

The BP2/BP2-BOX features an integrated sensor serving as temperature reference for thermocouple measurement.

DIN rail mounting.

The BP2 comes with a DIN rail carrier with bracket to be easily mounted on a standard DIN rail as commonly used in electrical installation.

Perfectly protected.

The BP2-BOX being accommodated in a waterproof IP65 housing is recommended for installation under rough environmental conditions.

The big option. You have the choice.

For all needing more channels: The backplane for miniature amplifiers is also available as a 16-channel version as external device (BP16).

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BP16

Backplane for MAL Amplifiers

Measuring Amplifers and Sensors. Get Connected.

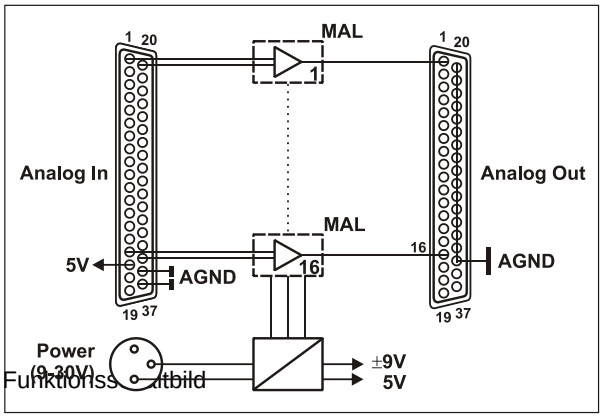
Backplane for miniature amplifiers: Up to 16 measuring amplifiers, converters, or any other function modules can be integrated in the BP16. If installed close to the signal, it provides for high interference resistance. Ideal for remote signal conditioning of passive sensors.

Signal Conditioning in Miniature Format.

In type of construction, the cost-effective MAL modules are designed like a 24-pin DIL IC. Measurement applications can therefore be realized even in problematic locations. With suitable measuring amplifiers, multiple wire technique can be realized, too.

Optimally Supplied.

The BP16 is operated with 9-30V. The integrated amplifiers are supplied by the electrically isolated power supply. In addition, 5V (50mA) with galvanic isolation are provided for sensor supply.



Signal Connection. D-Sub Standard.

Sensors or other voltage signals can comfortably be connected at a 37-pin D-Sub female.

Connection to the DAQ System.

The amplifier outputs are available at a 37-pin D-Sub female connector. They are connected to the input lines of a data acquisition system. Combining the BP16 with a measuring card or DAQ system from bmcm makes an extreme compact measurement system.

External Device.

The BP16 is accommodated in a stable aluminum housing ideal for mobile use. Notches in the housing frames allow for fixing the BP16 to a DAQ system (e.g. USB-AD14f) providing for a stable measuring unit.

The Smaller Options. You Have the Choice.

For all needing less channels: The backplane for miniature amplifiers is also available as a 2-channel version with carrier for DIN rail mounting (BP2) or integrated in a waterproof IP65 housing (BP2-BOX).

1 Preparations

Technical Data **(typical at 20°C, after 5min., 9-30V supply)**

- Electrical Data

Power supply:	+9..30V_{DC}, min. 0.3W, max. 4W
Sensor supply at pin 17 of D-Sub 37 IN:	+5V_{DC}, accuracy ±0.25%, TK 100ppm, electrically isolated
Current (sensor supply):	max. 50mA (if supplied with 9..30V_{DC})
Amplifier supply:	app. ±9V (max. 100mA), electrically isolated

- General Data

Connection analog:	37-pin D-Sub-D female for input and output each at the back and front side of the device
Connection power supply:	3-pin DIN plug at the back of the device
Temperature ranges:	storage and operating temperature -25..70□C
Relative humidity:	0-90% (not condensing)
CE standards:	EN61000-6-1, EN61000-6-3, EN61010-1
ElektroG // ear registration:	RoHS and WEEE compliant // WEEE Reg.-No. DE75472248
Max. permissible potentials:	**60V DC acc. to VDE**, max. 1kV ESD on open lines
Protection type:	IP30
Dimensions (L x W x H):	167 x 113 x 30 mm_3
Delivery:	device in aluminum housing, 3-pin coupling for power supply, 37-pin analog out cable
Warranty:	2 years from date of purchase at bmcm, claims for damages resulting from improper use excluded

- Accessories

Measuring amplifiers:	miniature measuring amplifiers and converters of the MAL / MAL-ISO series
Plugs:	ZU3DIN, ZU37ST
Cable:	ZUKA37SB, ZUKA37SS
Connector panels:	ZU37BB, ZU37CB, ZU37CO
DIN rail sets:	ZU-SCHI
Temperature reference:	ZU-TR with 37-pin D-Sub male
Power supply:	power supply unit ZU-PW40W (24V, 1.67A)
Other:	gender changer ZU37SS; waterproof housings ZU-PBOX-PG, ZU-PBOX-LAN