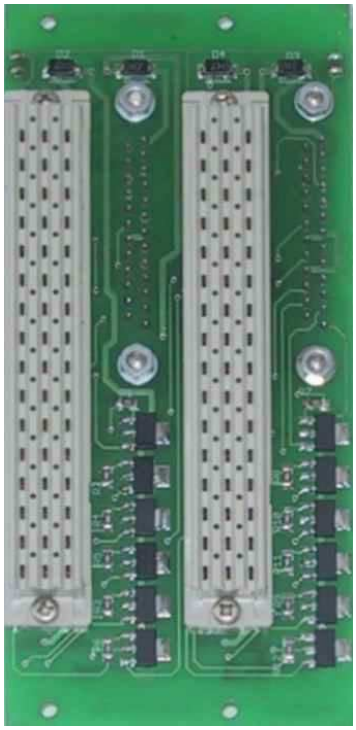
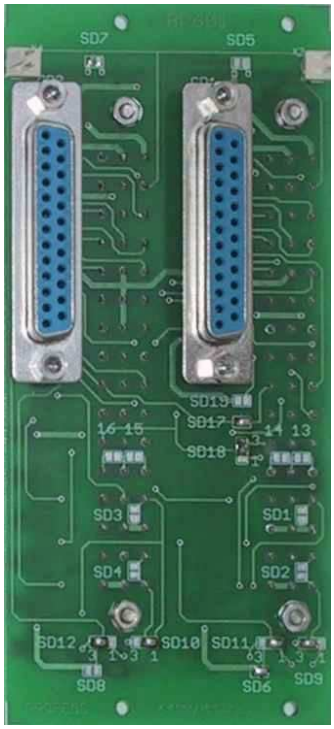
Universal Backplane BP601





- **PCB Motherboard for installation of one or two monitoring modules**
- **Suitable for modules: MMS 6110, 6120, 6125 MMS 6140, 6210, 6220, MMS 6410, 6310, 6312**
- **Standardized wiring of modules**
- **External connection via standard cables MMS 6360 and terminal adapters MMS 6361.**
- **Built in short-circuit-proof solid state switches on binary outputs**
- **Suitable for installation into MMS 6352 or similar 19" rack**

Application:

The Universal Backplane BP 601 is a motherboard, to be fitted on the rear side of the 19" rack. The Backplane comprises DIN F48 plug-in sockets for two epro MMS 6000 monitoring cards and 2 more 25-pole SubD sockets for connection of external devices. Interconnection between both connectors is provided by printed wires. Moreover the backplane includes shortcircuit-proof solid-state switches for trouble-free connection of binary outputs, diodes for supply voltage back-up and optional connector for RS485 communication line.

The backplane provides mounting positions for one or two monitoring modules (cards) of width 6 TE (30,5 mm).
The total size of backplane width is 12 TE. There is possible to fit seven backplanes for totally 14 modules into one standard 19" rack frame. On one backplane can be combined various types of modules. The unused slots between modules can be covered by optional cover panels. Small modifications of standard wirring are possible by soldering bridges.

The connection of external cabling to transducers and control system is made via standard 25-pole terminal block MMS 6361. The block can be mounted on standard rail TS 32 or TS 35. For connection between the terminal block and the backplane a flexible cable MMS 6360 is to be used. Standard length of this cable is 3 m.

Technical Data:

Mechanical:
Two layer PCB
Protection class:
IP 00, EN 60 529
Connector for module:
DIN 41612, type F48
Connector for cable:
SubD 25 pole
Connector for RS 485
flat cable 2 pole (optional)
Dimensions:
12TE, 3HE
60 x 129,5 mm
Weight:
approx. 120 g

Electrical:
Power supply:
Both modules (cards) are energized separatelly by their own cable.
Signal grounds GND of both cards are interconnected.
Each card has its own supply input +Un, -U and separate supply input for galvanically isolated binary outputs +Uo, -Uo.
There is possible to interconnect both supply inputs (+Un, +Uo) via decoupling diodes to provide redundant power supply.
Permissible voltage range:
19...31,2 V DC

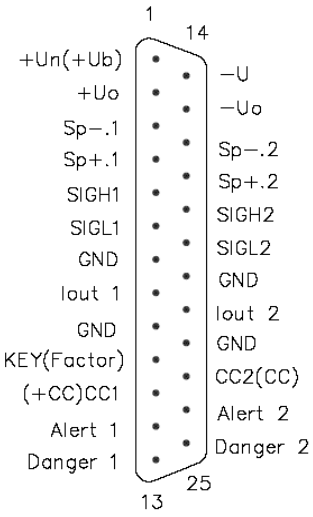
Inputs:
Transducer inputs / supply:
see data sheet of used module
Binary inputs KEY, FACTOR:
0...3 V = Low
>13 V = High

Outputs:
Analogue outputs:
0/4…20 mA, for details
see data sheet of used module
Binary outputs:
Shortcircuit-proof switch with common ground and supply:
Supply voltage: Uo=18...31,2 V
Max. oper. current : 50 mA
Short circ. current: 0,15..1 A

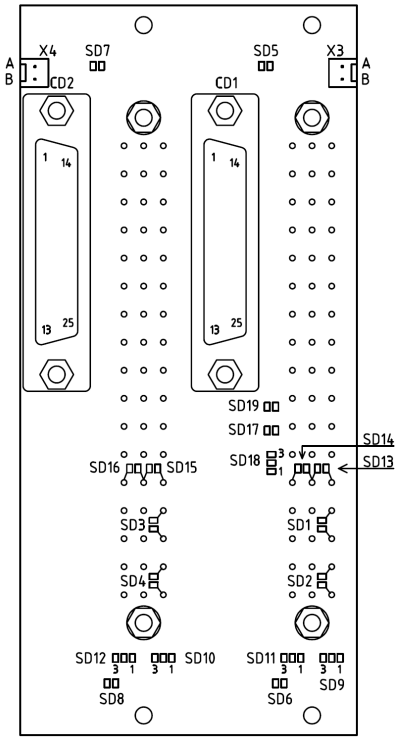
Environmental:
Application class:
KTF acc. To DIN 40 040
Temperature range:
-10...+65℃ (operation)
-40...+70℃ (transport, storage)
Relative humidity:
5...95%, non-condensing

Dimensions of the Backplane:

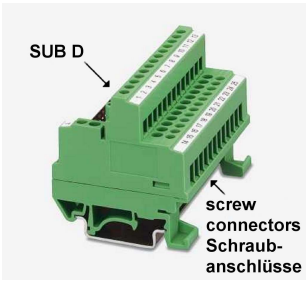
Pin layout on SubD connector



Rear view on the backplane

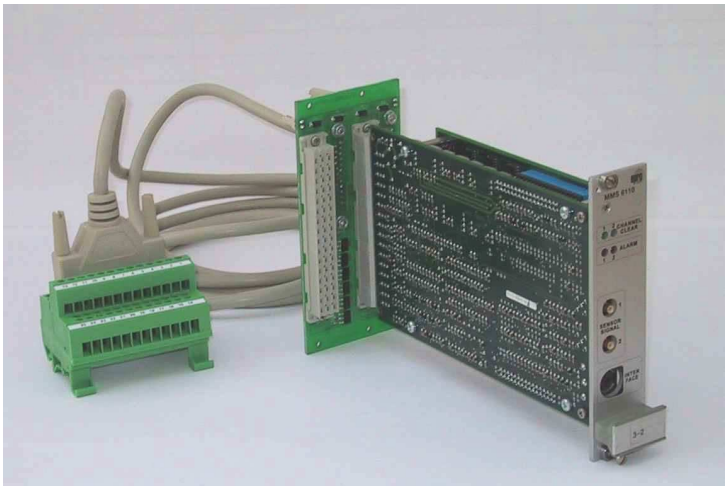


Terminal Block MMS 6361:

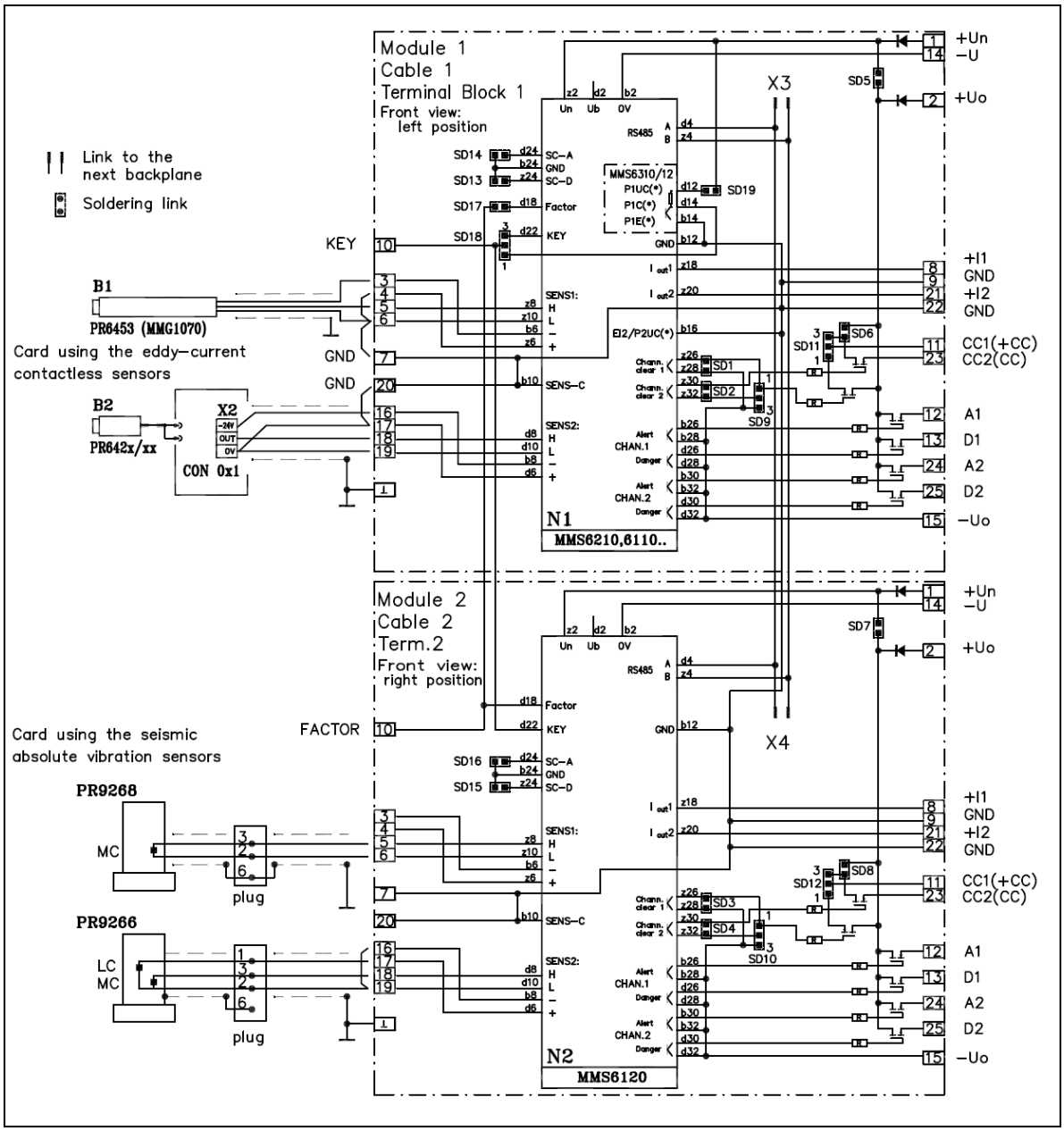


Length on DIN rail: 70 mm
Width: 52 mm
Height: 52 mm
Max. wire crosscut: 2,5 mm^2

Backplane set with the MMS 6000 module:



Connection diagram:



Ordering codes:

BP 601	Universal Backplane – all solder links open	**6490 – 00001**
BP 601-S	Universal Backplane preadjusted to specification	**6490 – 00002**
	The closed solder links should be specified in order	
MMS 6352	19“ Mounting rack.....	**9100 – 00053**
MMS 6360	Connection cable 25-pole SUB D.....	**9510 – 00006**
MMS 6361	Adapter 25 pole SUB D on screw terminals	**9100 – 00052**

© Profess spol. s r.o.
Květná 5, 326 00 Plzeň, CZ
Tel. +420 377 454 411
Fax +420 377 240 472

Further Information:
Internet: profess-online.cz
E-Mail: mms@profess-online.cz

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