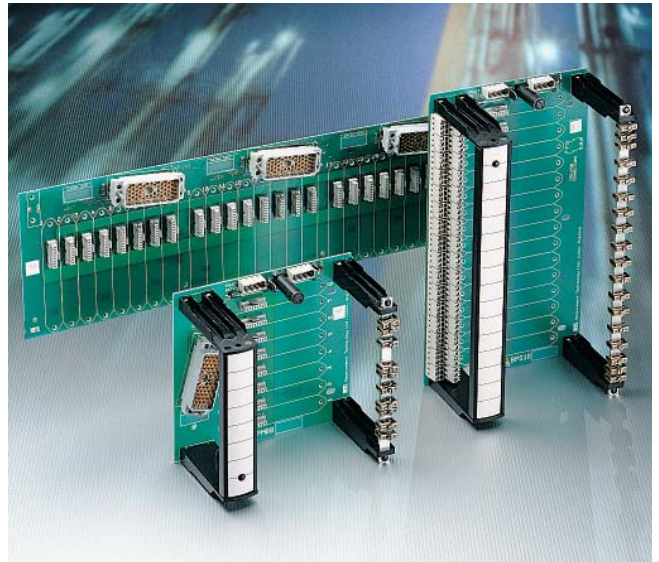


# MTL4000 SERIES BACKPLANES, ACCESSORIES AND ENCLOSURES

- ◆ **Standard 4-, 8-, 16- and 24-way backplanes with screw-clamp or multiway safe-area connectors**
- ◆ **Backplane mounting accessories for installation on DIN-rail, flat surfaces or in 19-inch racks**
- ◆ **Customised backplanes option – designed and produced without the need for IS certification**
- ◆ **Standard enclosures for 8-, 16-, or 2 x 16-way backplanes; rated IP65**
- ◆ **Hazardous-area plug-in screw-clamp or crimp connectors**

**Customised backplanes  
See 'System integration'  
for more details**



The **MTL4000 Series backplanes**, enclosures and other accessories provide comprehensive, flexible and remarkably compact mounting facilities for system vendors, original equipment manufacturers and end users alike.

**Standard MTL backplanes** are available to accommodate 4, 8, 16, or 24 modules with either screw-clamp or multiway connectors for the safe-area circuits. On an individual backplane, any module can be plugged into any position and module types can be mixed.

For 8-, 16- and 24-way backplanes, primary and secondary 24V dc power supplies are provided by screw-clamp connectors which plug into the backplanes. Power to several 8- or 16-way backplanes can be interconnected to reduce and simplify wiring – see instruction manual INM4000 for details.

**Optional accessories** include colour coded tagging strip kits for all three sizes of backplane and earth rail kits for 8 and 16-way versions. Mounting accessories are available for surface (all backplanes), T-section and G-section DIN-rail (8- and 16-way versions), and a horizontal plate for mounting 24-way backplanes in 19-inch racks.

**Weatherproof enclosures** are available for applications where separate safe-area enclosures are required for backplanes with modules. Available in three sizes to accommodate one 8-way, one 16-way or two 16-way backplanes, they are manufactured from GRP giving protection against dust and water to IEC529:IP65. The lids are made from transparent high-strength polycarbonate so that LEDs, switches, etc, on the tops of the modules are easy to see. Distribution of both safe- and hazardous-area cabling is taken care of by internal trunking.

**Other accessories** include screw-clamp and crimp hazardous-area connectors and crimps and crimp tools for the latter.

## MTL4000 Series system integration

MTL provides a complete design and/or manufacturing service for system integration. This covers design considerations (including advice and engineering drawings for users who intend to produce their own backplanes) right through to manufacture. This service give vendors and users of process control and safety systems the opportunity to integrate MTL4000 (and MTL4840) Series modules directly into their system architectures. Since there are no hazardous-area circuits on the backplanes, customised versions can be designed and produced without the need for IS certification, so simplifying design, reducing lead times and lowering costs.



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# MTL BPM/BPS BACKPLANES SPECIFICATION AND DIMENSIONS

## SPECIFICATION

### Power requirements, Vs

21V dc to 35V dc through plug-in connectors

### Safe-area connections

BPM: Elco 8016 56-pin male connectors – one connector for each group of 8 modules

BPS: 2.5mm<sup>2</sup> screw-clamp terminals – 6 positions per module

### Power sense

BPM: Through Elco 8016 connectors

BPS: Through separate plug-in crimp connector

### Weight (without modules or accessories)

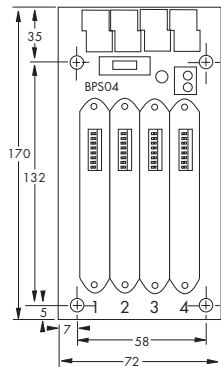
BPS04: 96g  
 BPM08: 159g  
 BPS08: 225g  
 BPM16: 286g  
 BPS16: 419g  
 BPM24: 382g  
 BPS24: 592g

## BACKPLANES – FEATURES

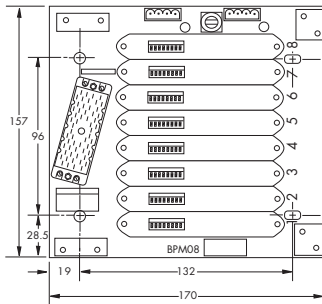
Model No.	No. of modules	Safe-area connections	Mounting			Accessories	
			Surface	DIN-rail (T or G)	19-inch rack	Earth-rail kit	Tagging strip kit
BPM08	8	Multiway	Yes	Yes	No	Yes	Yes
BPM16	16	Multiway	Yes	Yes	No	Yes	Yes
BPM24	24	Multiway	Yes	No	Yes	No	Yes
BPS04	4	Screw-clamp	Yes	Yes	No	No	No
BPS08	8	Screw-clamp	Yes	Yes	No	Yes	Yes
BPS16	16	Screw-clamp	Yes	Yes	No	Yes	Yes
BPS24	24	Screw-clamp	Yes	No	Yes	No	Yes

## DIMENSIONS (mm)

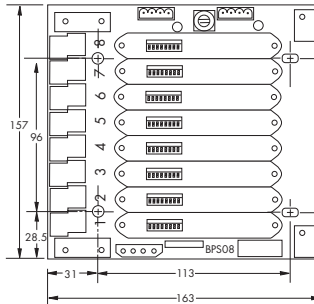
**BPS04 4-way backplane (screw-clamp connectors)**



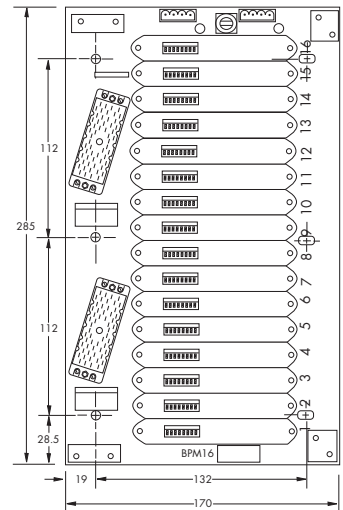
**BPM08 8-way backplane (multiway connectors)**



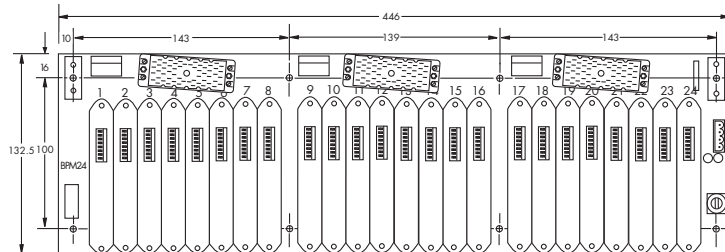
**BPS08 8-way backplane (screw-clamp connectors)**



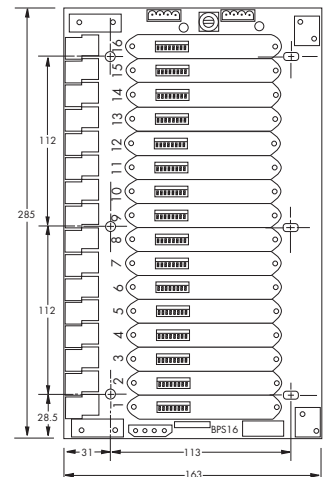
**BPM16 16-way backplane (screw-clamp connectors)**



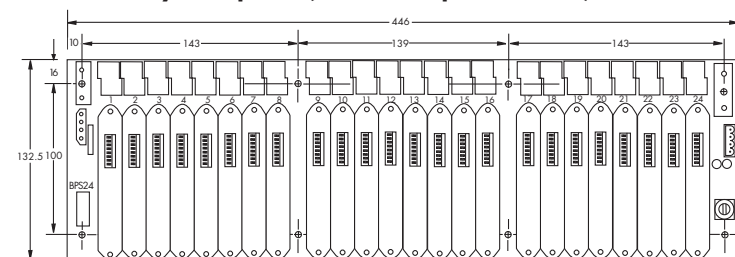
**BPM24 24-way backplane (multiway connectors)**



**BPS16 16-way backplane (screw-clamp connectors)**



**BPS24 24-way backplane (screw-clamp connectors)**



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