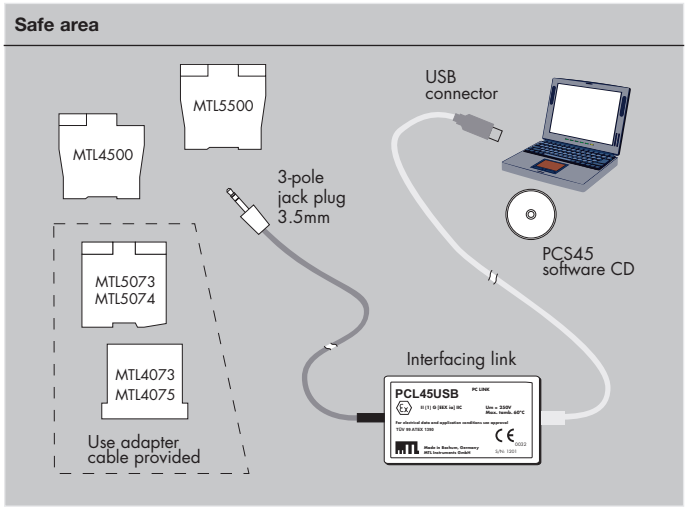
PCS45/PCL45USB CONFIGURATOR FOR MTL CONVERTERS

The PCS45/PCL45USB configurator allows MTL converters to be configured from a standard PC running a Microsoft® Windows® operating system. It comprises PC software, provided on a CD (PCS45), and an ATEX certified interfacing link (PCL45USB). Converters can be configured from the safe area, while on-line, and configurations can be saved to disk and printed out when required. It is suitable for use with MTL4000, MTL4500, MTL4600, MTL5000 and MTL5500 range of products.



SPECIFICATION

PCL45USB hardware

Location
Safe area

Connections
PC side: USB B(F) socket
Converter side: cable with 3.5mm jackplug, 3-pole for MTL4500, MTL4600 and MTL5500 range of converters. An adapter cable is provided for other earlier MTL converters.

Cable lengths
Converter side (fitted): 1.5m
USB cable A(M) to B(M) (supplied): 2m

Ambient temperature limits
–10°C to +60°C operating
–20°C to +70°C storage

Humidity
5 to 95% relative humidity (non-condensing)

Weight
200g

PCS45 Configuration software
Compatible with Windows 2000 or Windows XP.
Consult MTL for operation with any other operating system, e.g. Windows Vista™.

Software medium
PCS45 supplied on CD
Updates are available at www.mtl-inst.com

Recommended minimum PC configuration
Microsoft Windows 2000 or Windows XP
20MB of available hard disc space
CD ROM drive
Available USB port
Printer (local or network)

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In the interest of further technical developments, we reserve the right to make design changes.

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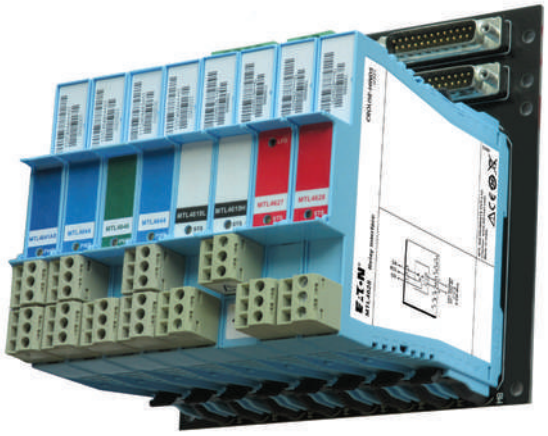
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CUSTOM, STANDARD AND UNIVERSAL BACKPLANES FOR EASY DCS INTEGRATION

- **Total flexibility**
- **Reduce wiring**
- **Simplify installation**
- **Special functions**
- **Signal conditioning**
- **HART® integration**



The MTL4500/MTL4600 range of backplanes, enclosures and other accessories provide comprehensive, flexible and remarkably compact mounting facilities for system vendors, original equipment manufacturers and end users alike.

CUSTOMISED BACKPLANES

Eaton provides a complete design and manufacturing service for MTL customised backplanes. Customised backplanes give the vendors and users of process control and safety systems the opportunity to integrate MTL4500/MTL4600/HART® modules directly into their system architecture. As there are no hazardous-area circuits on the backplanes, customised versions can be produced without the need for IS certification, so simplifying design and lowering costs.

UNIVERSAL CUSTOM BACKPLANES

The 'universal' backplane allows a fast and economic approach to providing a custom interface. Where tight time schedules exist, the backplane can be installed to allow the panel building and wiring to be completed. The customised adapter card can then be plugged in at any time up to integrated test.

ADAPTER CARDS

Adapter cards already exist for many of the DCS companies. In addition there is a range of general purpose cards that offer reduced wiring for use with specific MTL modules. These are also available in left- and right-hand versions to ease panel wiring.

STANDARD MTL BACKPLANES

Standard MTL backplanes are available to accommodate 4, 8, 16, or 24 modules using screw-clamp 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, screw-clamp connectors which plug into the backplanes provide primary and secondary 24V dc power supplies. Power to several 8- or 16-way backplanes can be interconnected to reduce and simplify wiring – see instruction manual INM4500/INM4600 for details.

OPTIONAL ACCESSORIES

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

Weatherproof enclosures are available for applications where separate safe–area enclosures are required for backplanes with modules. Available to accommodate one 4-way or one 8-way backplane, 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.

DCS VENDORS/SYSTEMS SUPPORTED:

ABB Automation
S100, INFI90, S800

Emerson
Delta V, M Series, S Series

GE Bently-Nevada

HIMA
HIMax

Honeywell
PMIO, C200, C300, UPIO, Safety Manager, USIO

Rockwell Automation
ICS Triplex, Plantguard

Schneider Electric
Foxboro I/A, Triconex Trident/Tricon, Modicon

Siemens
ET200, S7

Yokogawa
Centum R3, VP, Prosafe RS, CS3000

MTL CPS STANDARD BACKPLANES

Backplane model no.	Number of modules	Safe-area connections	MOUNTING KITS			ACCESSORIES		
			Surface	DIN–rail (T or G)	19–inch rack	Earth–rail kit	Tagging strip kit	Spare fuse pack
CPS04	4	Screw–clamp	SMS01	DMK01	–	–		FUS1.0ATE5
CPS08	8	Screw–clamp	SMS01	DMK01	–	ERK08	TSK08	FUS1.0ATE5
CPS16	16	Screw–clamp	SMS01	DMK01	–	ERK16	TSK16	FUS2.0ATE5 or FUS2.5ATE5
CPS24	24	Screw–clamp	SMS01	DMK01	HMP24	–	TSK24	FUS4.0ATE5

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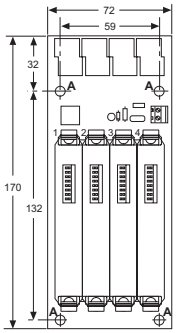
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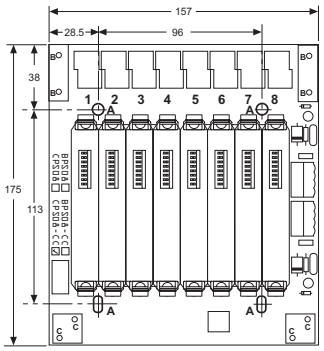
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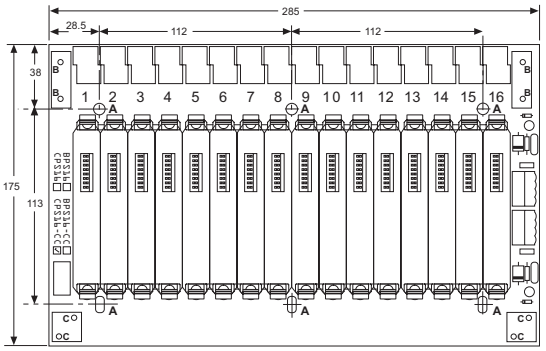
CPS BACKPLANE DIMENSIONS (mm)



CPS04
CPS04-CC

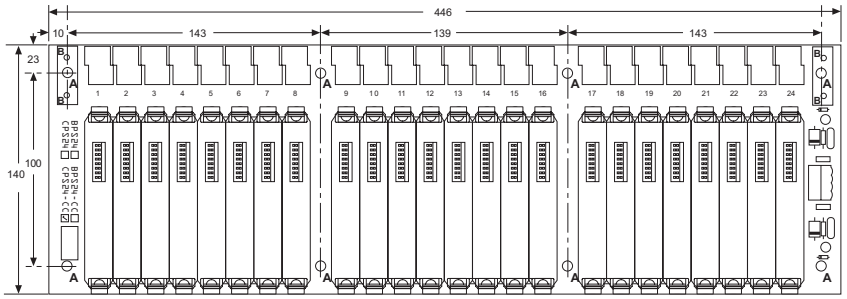


CPS08
CPS08-CC



CPS16
CPS16-CC

-CC - Conformal Coating

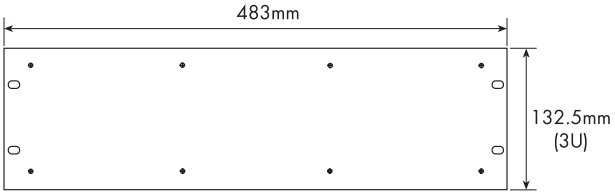


CPS24

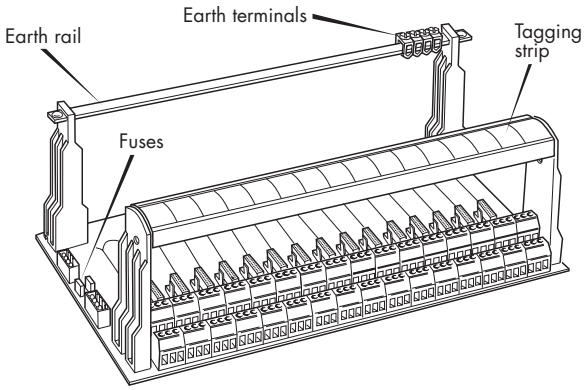
Power requirements, Vs
21V dc to 35V dc through plug-in connectors
Safe–area connections
CPS: 2.5mm^2 screw-clamp terminals – 6 positions per module
Weight (without modules or accessories)

CPS04:	96g
CPS08:	225g
CPS16:	419g
CPS24:	592g

HMP24 - 19" RACK MOUNTING PLATE FOR CPS24



BACKPLANE ACCESSORIES



SCK45 - backplane clips



10 x strip of four

MCK45 - backplane clips



16 x strip of two

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ORDERING INFORMATION



MTL4600 range of isolators
Specify part number: eg, **MTL4611**

Individual isolator identification

TH5000	Tag holder (Pack of 20)

Connectors - MTL4600

SAF-CJC	Field plug, terminals 1 and 3 with cold-junction sensor
SAF-CJC2	Field plug, terminals 4 and 6 with cold-junction sensor
SAF1-3	System plug, terminals 1, 2 and 3
SAF4-6	System plug, terminals 4, 5 and 6



MTL4500/4600 Standard Backplanes

CPS04	4-way backplane screw-clamp connector
CPS08	8-way backplane screw-clamp connector
CPS16	16-way backplane screw-clamp connector
CPS24	24-way backplane screw-clamp connector

MTL4500/4600 Custom Backplanes
Contact MTL for options and advice



MTL4500/4600 Backplane mounting accessories

DMK01	DIN-rail mounting kit, T- or G-section (pack of 40) 8-way backplanes require 4, 16-way backplanes require 6
SMS01	Surface mounting kit (pack of 40) 4- and 8-way backplanes require 4, 16-way backplanes require 6, 24-way backplanes require 8
HMP24	Horizontal mounting plate and screws for 19-inch rack mounting 24-way backplanes only
BMK08	Mounting kit for one 4- or 8-way backplane
BMK16	Mounting kit for one 16-way backplane

MTL4600 Backplane accessories

ERK08	Earth rail kit for CPS08 backplane
ERK16	Earth rail kit for CPS16 backplane
TSK08	Tagging strip kit for CPS08 backplane
TSK16	Tagging strip kit for CPS16 backplane
TSK24	Tagging strip kit for CPS24 backplane
FUS1.0ATE5	Fuse kit for 4- and 8-way backplanes, (10 per pack)
FUS2.0ATE5	Fuse kit for 16-way backplane, (10 per pack)
FUS4.0ATE5	Fuse kit for 24-way backplanes, (10 per pack)
MCK45	MTL4000 backplane conversion kit (16 clip pairs per pack)
SCK45	Module 4-clip strips (10 strips + 40 rivets per pack)
MPL01	Module position label (blank) (50 per pack)



Literature

INM4500	MTL4600 range instruction manual

Configurator and software

PCL45USB	Configurator, PC interface and software
PCS45	PC software

Please go to our website at www.mtl-inst.com for the latest information.

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