

# PR<sup>®</sup>



## 7300

**Backplane**

No. 7300V100-IN  
From ser. no. 110192001

**SIGNALS THE BEST**

- DK** ▶ PR electronics A/S tilbyder et bredt program af analoge og digitale signalbehandlingsmoduler til industriel automation. Programmet består af Isolatorer, Displays, Ex-barrierer, Temperaturtransmittere, Universaltransmittere mfl. Vi har modulerne, du kan stole på i selv barske miljøer med elektrisk støj, vibrationer og temperaturudsving, og alle produkter opfylder de strengeste internationale standarder. Vores motto »Signals the Best« er indbegrebet af denne filosofi – og din garanti for kvalitet.
- UK** ▶ PR electronics A/S offers a wide range of analogue and digital signal conditioning devices for industrial automation. The product range includes Isolators, Displays, Ex Interfaces, Temperature Transmitters, and Universal Devices. You can trust our products in the most extreme environments with electrical noise, vibrations and temperature fluctuations, and all products comply with the most exacting international standards. »Signals the Best« is the epitome of our philosophy – and your guarantee for quality.
- FR** ▶ PR electronics A/S offre une large gamme de produits pour le traitement des signaux analogiques et numériques dans tous les domaines industriels. La gamme de produits s'étend des transmetteurs de température aux afficheurs, des isolateurs aux interfaces SI, jusqu'aux modules universels. Vous pouvez compter sur nos produits même dans les conditions d'utilisation sévères, p.ex. bruit électrique, vibrations et fluctuations de température. Tous nos produits sont conformes aux normes internationales les plus strictes. Notre devise »SIGNALS the BEST« c'est notre ligne de conduite - et pour vous l'assurance de la meilleure qualité.
- DE** ▶ PR electronics A/S verfügt über ein breites Produktprogramm an analogen und digitalen Signalverarbeitungsmodulen für die industrielle Automatisierung. Dieses Programm umfasst Displays, Temperaturtransmitter, Ex- und galvanische Signaltrenner, und Universalgeräte. Sie können unsere Geräte auch unter extremen Einsatzbedingungen wie elektrisches Rauschen, Erschütterungen und Temperaturschwingungen vertrauen, und alle Produkte von PR electronics werden in Übereinstimmung mit den strengsten internationalen Normen produziert. »Signals the Best« ist Ihre Garantie für Qualität!

# BACKPLANE

7300

## Table of contents

Declaration of conformity .....	2
Application .....	3
Technical characteristics .....	3
Mounting / installation.....	3
Applications.....	4
Electrical specifications.....	5
Mechanical specifications .....	6

# DECLARATION OF CONFORMITY

As manufacturer

**PR electronics A/S**  
**Lerbakken 10**  
**DK-8410 Rønde**

hereby declares that the following product:

**Type: 7300**  
**Name: Backplane**

is in conformity with the following directives and standards:

The EMC directive 2004/108/EC and later amendments

**EN 61326-1 : 2006**

For specification of the acceptable EMC performance level, refer to the electrical specifications for the devices.

Rønde, 10 February 2011



---

Kim Rasmussen  
Manufacturer's signature

# Backplane 7300

- *8, 16, 24 or 32 channel setup*
- *Easy wiring via multi-cable*
- *DCS-specific connectors*
- *Ex and standard devices*
- *Redundant power supply connection*

## Application

- Signal distribution with PR system 5000 devices in a 8-32 channel setup.
- Backplane with devices mounted and wired according to DCS specifications.
- A plug & play solution which reduces wiring and installation costs.
- Ex installations and standard installations.
- Handles active and passive signals independently of the SCADA system.

## Technical characteristics

- The redundant power supply connection ensures optimum safety and transmits a relay signal at supply interruption.

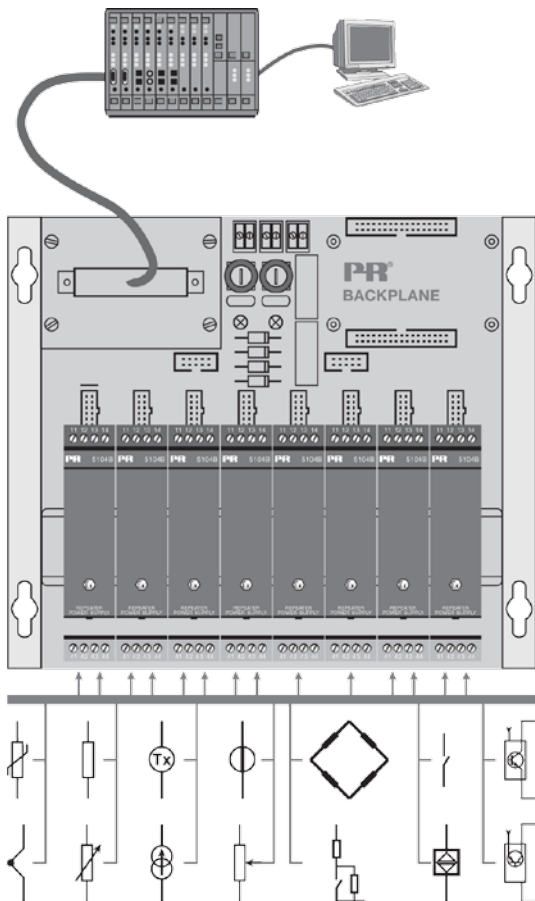
- The standard connection allows integration with the following system vendors:

ABB Automation	Allen-Bradley
Emerson	Foxboro
GE-Fanuc	Honeywell
Invensys	Mitsubishi
Schneider Electric	Siemens
Yokogawa	

## Mounting / installation

- Vertical or horizontal mounting in electrical switchboards.

# APPLICATIONS



## Electrical specifications

### Specifications range:

-20 to +60°C

### Common specifications:

Supply voltage.....	20.4...27.6 VDC
Internal consumption, without devices .....	≤ 2 W (7300A)
Internal consumption, without devices .....	≤ 4 W (7300B)
Fuse.....	2 A SB / 250 VAC
Isolation voltage, test / operation .....	500 VAC / 50 VAC
Dimensions with devices (HxWxD) .....	205 x 240 x 145.6 mm
Dimensions with devices (HxWxD) .....	205 x 455 x 145.6 mm
Weight 7300A (without devices).....	1200 g
Weight 7300B (without devices).....	2400 g

### Relay outputs:

Max. voltage.....	50 VRMS
Max. current .....	1 A / AC
Max. AC power .....	50 VA
Max. current at 24 VDC.....	1 A

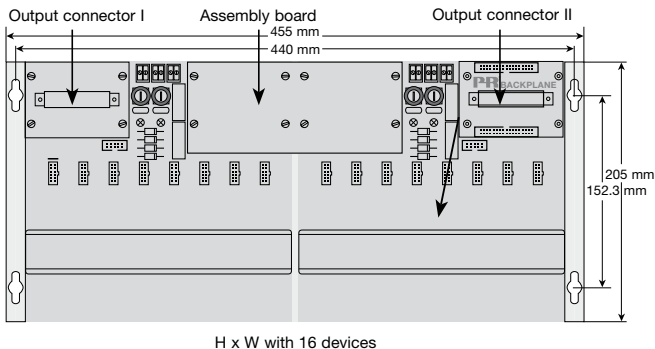
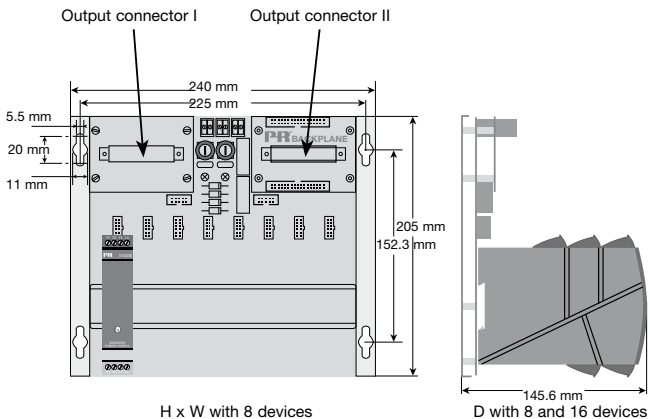
### Observed authority requirements:

EMC 2004/108/EC .....

### Standard:

EN 61326-1

## Mechanical specifications







**Displays** Programmable displays with a wide selection of inputs and outputs for display of temperature, volume and weight, etc. Feature linearisation, scaling, and difference measurement functions for programming via PReset software.



**Ex interfaces** Interfaces for analogue and digital signals as well as HART® signals between sensors / I/P converters / frequency signals and control systems in Ex zone 0, 1 & 2 and for some modules in zone 20, 21 & 22.



**Isolation** Galvanic isolators for analogue and digital signals as well as HART® signals. A wide product range with both loop-powered and universal isolators featuring linearisation, inversion, and scaling of output signals.
























**Temperature** A wide selection of transmitters for DIN form B mounting and DIN rail modules with analogue and digital bus communication ranging from application-specific to universal transmitters.



**Universal** PC or front programmable modules with universal options for input, output and supply. This range offers a number of advanced features such as process calibration, linearisation and auto-diagnosis.



- 
 [www.preelectronics.fr](http://www.preelectronics.fr)  
 [sales@preelectronics.fr](mailto:sales@preelectronics.fr)
- 
 [www.preelectronics.de](http://www.preelectronics.de)  
 [sales@preelectronics.de](mailto:sales@preelectronics.de)
- 
 [www.preelectronics.es](http://www.preelectronics.es)  
 [sales@preelectronics.es](mailto:sales@preelectronics.es)
- 
 [www.preelectronics.it](http://www.preelectronics.it)  
 [sales@preelectronics.it](mailto:sales@preelectronics.it)
- 
 [www.preelectronics.se](http://www.preelectronics.se)  
 [sales@preelectronics.se](mailto:sales@preelectronics.se)
- 
 [www.preelectronics.co.uk](http://www.preelectronics.co.uk)  
 [sales@preelectronics.co.uk](mailto:sales@preelectronics.co.uk)
- 
 [www.preelectronics.com](http://www.preelectronics.com)  
 [sales@preelectronics.com](mailto:sales@preelectronics.com)

## Head office

Denmark  
 PR electronics A/S  
 Lerbakken 10  
 DK-8410 Rønde

[www.preelectronics.com](http://www.preelectronics.com)  
[sales@preelectronics.dk](mailto:sales@preelectronics.dk)  
 tel. +45 86 37 26 77  
 fax +45 86 37 30 85



QUALITY SYSTEM AND ENVIRONMENTAL MANAGEMENT SYSTEM  
 DS/EN ISO 9001  
 DS/EN ISO 14001

