

### 3.9 PR 1721 fieldbus interface

Fieldbus interface PR 1721/.. is an option for installation in PR 1720.

- PR 1721/11 PROFIBUS DP Slave
- PR 1721/12 InterBus-S Slave
- PR 1721/14 DeviceNet Slave

#### Data transfer

Handling of data is done in the same way as for Profibus-DP, Interbus-S or DeviceNet (see chapter 10).

The **fieldbus interface** (RS 485/ differential) is galvanically isolated.

The fieldbus protocol is realized by a plugged in subunit chip. The software for the fieldbus module is activated when switching on the basic unit.

The interface board is delivered with two M16 glands.

#### Installation:

The fieldbus connecting unit comprises a card with processor and logic and 13-pole connecting unit. After plugging in the card into the main p.c.b. (caution, 50-pole connector at the universal module), the board must be fitted at the two mounting posts with screws.

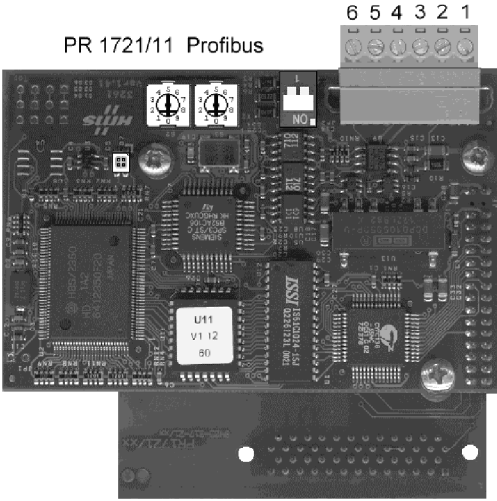
#### Cable connection:


The blind plugs in front of the connector strip must be replaced with the M16 cable glands. Bus connection is by means of cables through the metal glands (M gland) to the 13-pole terminal strip at the fieldbus module. Connect the cable screens completely and exclusively to the glands!

	PR 1721/11 PROFIBUS DP	PR 1721/12 InterBus- S	PR 1721/14 DeviceNet
Pin no.			
1	VP	/DO1 (A_Data out inv.)	V-
2	DGND	DO1 (A_Data out)	CAN_L
3	Data_A	/DI1 (A_Data in inv.)	frei / free
4	Data_B	DI1 (A_Data in)	CAN_H
5	frei / free	GND (Reference)	V+ (33 mA)
6	frei / free	PE (don't connect)	
Pin no.			
7		/DO2 (W_Data out inv.)	
8		DO2 (W_Data out)	
9		/DI2 (W_Data in inv.)	
10		DI2 (W_Data in)	
11		GND	
12		Con Test	
13		PE (don't connect)	

### 3.9.1 PR1721/11 Profibus-DP (option)

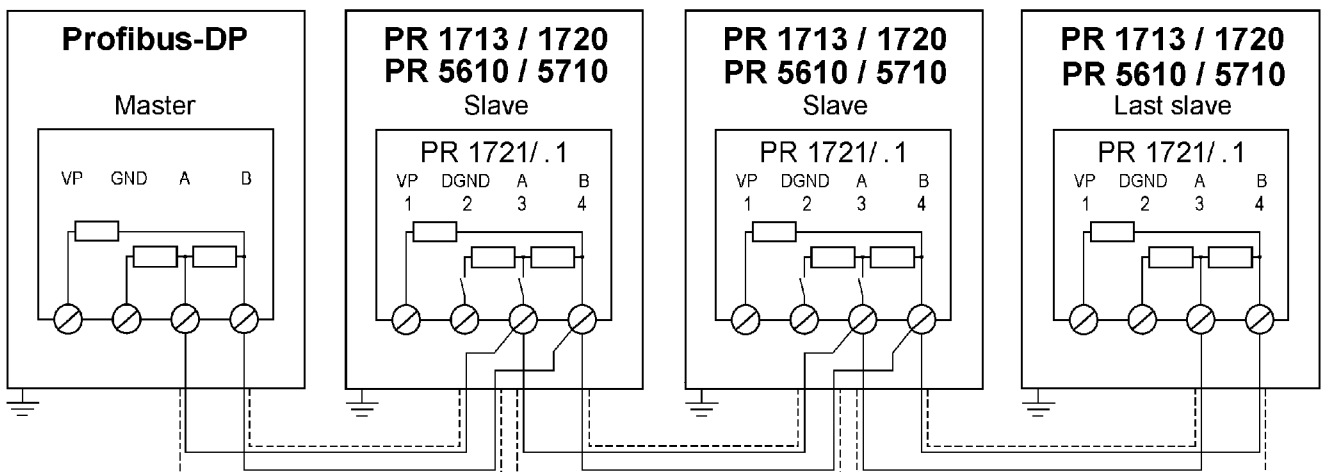
Communication protocols and syntax comply with the relevant bus standard.

	<b>Connecting method:</b>		50 pole connector
			Terminal block with 6 screw terminals
	<b>Transmission rate:</b>		Profibus-DP max. 12 Mbits/sec.
	<b>Protocols:</b>		Profibus-DP slave
	<b>Cable:</b>		Shielded twisted pair
<b>Cable impedance:</b>		150 Ω	
<b>Dimension (LxWxH):</b>	70 x 86 x 25 mm	<b>Potential isolation:</b>	Yes
<b>Weight:</b>	65 grs.		

 Please ensure, that both switches are in the O position

 The jumper S (X610) in PR 1720 must be OPEN, see chapter 3.1

For further information please refer to the manual **Fieldbus-Interface PR 1721/1x** (hardware).



Use screened, twisted bus cable (1x2).

Bus termination at both ends by resistors at the bus (220 Ω) and for power supply (390 Ω each).

GSD file GWT\_00C3.GSD for PR 1721/01 can be copied under our Internet address.

GSD: on our website [Internet](http://www.sartorius.com) [www.sartorius.com](http://www.sartorius.com)