

2.5.5 Profibus DP Integrating machines and industrial environments

PROFIBUS

Profibus in building automation systems

In accordance with EN 50170, Profibus is the internationally standardised bus for industry and building automation systems. Profibus opens up the world of standardised network communication for a wide range of applications between different manufacturers:

- ▶ Profibus is open and not bound to a specific manufacturer
- ▶ PNO, the Profibus user organisation, maintains a qualified certification system and assesses Profibus products in terms of compliance with standards and interoperability
- ▶ Profibus DP, the up to 12 MBit/s network protocol for the field level in automated production is also used in building automation systems owing to the wide range of accessories

Profibus DP with Saia PCD®

Saia PCD® controllers are available with Profibus DP master and slave connections. Version DP V0 is supported. The diverse communication properties of Saia PCD® controllers makes them ideal for use as communication gateways, e.g. Ethernet Profibus, BACnet – Profibus, etc.

Saia PCD® systems with Profibus DP master 12 MBit/s connection

Baud rate	Connection	Port	Electrically isolated	System
Up to 12 MBit/s	D-sub connector	# 10	Yes	PCD3.M6560
Up to 12 MBit/s	D-sub connector	# 10	Yes	PCD2.M5540 with PCD7.F7500 module

Saia PCD® systems with Profibus DP slave, onboard interface

Baud rate	Connection	Port	Electrically isolated	System
Up to 187.5 kBit/s	Terminal block	# 2	No	PCD3.M6560, PCD3.M6860, PCD3.M5340, PCD3.M3xxx, PCD3.M2130V6, PCD3.M2230A4T5, PCD1.M2xxx, PCD1.M0160E0
Up to 1.5 MBit/s	D-sub connector	# 10	Yes	PCD3.M5560, PCD3.M5540, PCD3.M5440, PCD2.M41x0, PCD2.M5540

Network configurators for Profibus

The PG5 programming tool contains convenient network configuration tools for all types of network. The user defines his variables, objects and network parameters with it.

