

PROFIBUS in process automation - the basics (WT-PCS7PB)

Ziele

You will learn about the basic properties of the PROFIBUS fieldbus, its application areas, become acquainted with the limitations of PROFIBUS in process automation, find out about the bus access procedure and the PROFIBUS DP communication profile, and also become familiar with the configuration possibilities. The WBT can be ordered directly online and is then immediately available for one year in your individual online learning environment.

Zielgruppe

Decision makers
Sales personnel
Planners
Programmers
Commissioning engineers
Configuration engineers
Maintenance engineers
Maintenance personnel
Service personnel

Inhalte

- Chapter 1: Master-slave principle
- Standardization of PROFIBUS
 - Distributed I/O and automation devices
 - Bus access by automation devices
 - Token principle
- Chapter 2: Transmission technology
- Transmission standard EIA RS-485 and intrinsically safe RS-485-iS
 - Transmission using fiber-optic cable
 - Transmission standard PROFIBUS PA (MPB)
 - Transmission speed and bus length
 - Node addresses
- Chapter 3: Protocol architecture
- ISO/OSI layers
 - Layer services
 - Bus access control
 - Master-slave protocol
 - Broadcast/Multicast
- Chapter 4: DP communication profile
- Application areas of PROFIBUS DP
 - DP communication profile for mono-master systems
 - Class 1/Class 2 master
 - DPV1 and DPV2 expansion
 - HART applications on PROFIBUS

Typ

E-Learning

Dauer

90 Minuten

Sprache

en