

Simplifying management of protection & control relays. PCM600.



PCM600 features:

Project explorer to navigate to the used IEDs within a project / substation:

- Filtering of parameters enables viewing relevant of a function block
- Re-use configured IEDs with powerful copy / paste functionality
- Access to the tools of selected IED

Parameter setting enables viewing and setting of IED parameters:

- Graphical visualization of DR events in the dashboard.
- Graphical representation of parameters simplifies setting of protection function parameters
- Export and import parameters for test sets in XRIO format, or export in CSV format

Graphical application configuration for creation and monitoring of application configuration:

- Create, adapt and modify application configurations
- Template support for later re-use
- Presentation of whole signal flow from input to output
- Validation of configuration before writing configuration to an IED
- Comparison of configuration between tool and IED
- Online monitoring to verify real-time processes in the IED

Signal matrix for efficient and flexible connection of:

- Analogue signals of CTs, VTs
- Binary input and output signals
- Connection of the GOOSE (Generic Object Oriented System-Wide Events) signals between IEDs

Graphical display editor for configuring the display of an IED:

- IEC and ANSI symbol palettes
- Template functionality for efficient re-use of display configurations

Hardware configuration:

- View hardware configuration of an IED
- Add or change hardware modules
- Compare hardware configuration used in tool and actual one in IED

Communication management for configuration of different communication protocols:

- DNP3, IEC 60870-5-101/103/104 or Modbus®

IEC 61850 configuration:

- View or engineer dataset and dataflow configuration, for vertical or horizontal IEC 61850 communication
- Integration of loose Relion IEDs into 3rd party system
- GOOSE configuration between Relion IEDs in one project

Access management:

- Use access management both for the tool and the IEDs user account management

Comparison of configuration between IEDs and PCM600:

- Online to compare differences of connected IED and configuration in tool
- Offline for comparison of configurations of two IEDs being in same project or not

Managing service relevant data from IEDs:

- IEC 61850 based IEDs (Ed.1 and Ed.2)
- Reading all attributes from LLN0 and LPHD Logical Node
- Tracking changes in the dashboard

Monitoring of IED signals and events:

- Signal monitoring for online information of measures values and status of binary input and output signals
- Event viewer enables viewing of IED events

Integrated disturbance recording functionalities for:

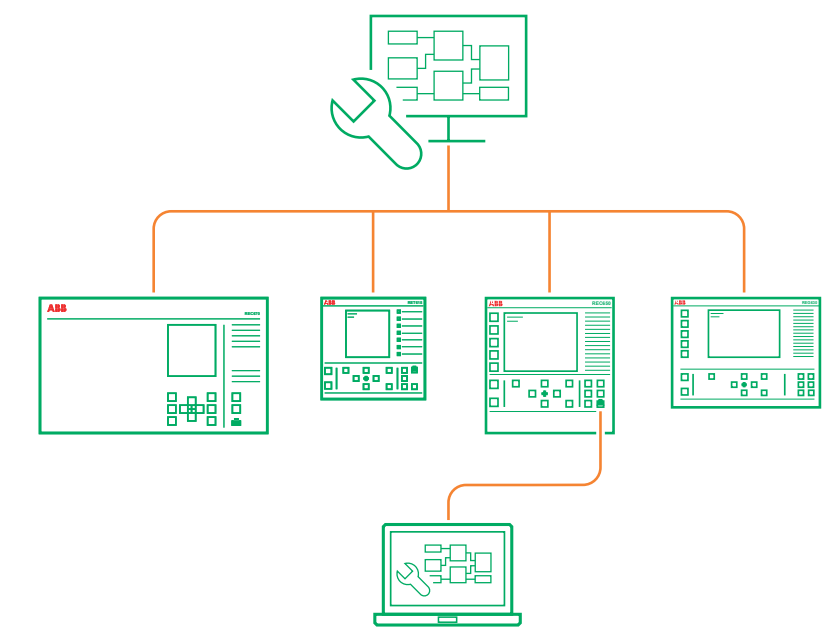
- Scanning and analysis of disturbance information

Configuration data backup functionality

PCM600 utilizes ABB's unique Connectivity Package concept:

- Connectivity Packages contains a comprehensive description of the IED, consisting of data signals and parameters as well as the IED documentation

Specifications



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Technical data

Hardware	Minimum	Recommended
CPU	1.5 GHz	2.4 GHz
RAM	2 GB	4 GB
Free hard disk space	4 GB	8 GB
Monitor	1024 x 768	1280 x 1024
Ethernet port	required	required

Communication

Protocols
TCP/IP via LAN or WAN
Serial Port (RS-232) or USB/RS-232 converter if SPA-based communication is used
Opto/electrical (RS-232) cable for front communication if SPA-based communication is used

Supported operating systems

Operating system	Version
Windows Server 2008 R2 (64-bit)	-
Microsoft Windows Vista Business 32-bit	SP2
Microsoft Windows 7 Professional 32-bit	SP1
Microsoft Windows 7 Professional 64-bit	SP1
Windows 8 / 8.1 32-bit	-
Windows 8 / 8.1 64-bit	-
Windows 10	-

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