Simplifying management of protection and control relays.

**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
  - GOOSE engineering and monitoring of attribute values.

- **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

**Ethernet Configuration:**
- Ethernet Configuration is used to configure Ethernet ports both online and offline.
- Ethernet configuration can be used to configure access points, merging unit (IEC 61850-9-2) and routers

**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

Technical Data

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1.5 GHz</td>
<td>2.4 GHz</td>
</tr>
<tr>
<td>RAM</td>
<td>2 GB</td>
<td>4 GB</td>
</tr>
<tr>
<td>Free hard disk space</td>
<td>4 GB</td>
<td>8 GB</td>
</tr>
<tr>
<td>Monitor</td>
<td>1024 x 768</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Ethernet port</td>
<td>required</td>
<td>required</td>
</tr>
</tbody>
</table>

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)
- Windows Server 2012 r2 (64-bit)
- Windows Server 2016
- Windows 7 (32-bit/64-bit) SP1
- Windows 8/8.1 (32-bit/64-bit)
- Windows 10