



# **PLCopen - Technical Committee 5**

## **Safety Software**

### **Technical Specification**

#### **Part 1: Concepts and Function Blocks**

**Version 1.0 – Official Release  
Compliance Statement Only**

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Date: April 20, 2006.

## **Appendix 1. Compliance Procedure and Compliance List**

Listed in this Appendix are the requirements for the compliance statement from the supplier of the safety specification. The compliance statement consists of two main groups:

1. Reduction in programming languages and functionality (see "Appendix 1.2 Reduction in the Development Environment").
2. The definition of a set of function blocks with safety-related functionality (see "Appendix 1.3 Overview of the Function Blocks").

The supplier must fill out the tables for their implementation, according to their product, committing their support to the specification itself.

By submitting these tables to PLCopen, and following approval by PLCopen, the list will be published on the PLCopen website (<http://www.plcopen.org>) as specified in "Appendix 2 The PLCopen Safety Logo and Its Use" below.

In addition to this approval, the supplier is provided with access and usage rights for the PLCopen Safety logo, as described in Appendix 2 The PLCopen Safety Logo and Its Use.

**Appendix 1.1. Supplier Statement**

Supplier name	Bachmann electronic GmbH
Supplier address	Kreuzäckerweg 33
City	A-6800, Feldkirch
Country	Austria
Phone	+43 (0) 55 22 / 34 97 - 0
Fax	+43 (0) 55 22 / 34 97 - 43
Website	<a href="http://www.bachmann.info">http://www.bachmann.info</a>
Product name	Safety Developer
Product version	ab Bachmann SolutionCenter V1.41
Release date	08/2009
Certified by	TÜV SÜD, Ridlerstrasse 65, 80339 München

I hereby state that the following tables as filled out and submitted correspond to our product and the accompanying user manual, as stated above.

Name of representative: Bernhard Zangerl (CEO)

Date of signature (dd/mm/yyyy): 21.09.2009

Signature:



## Appendix 1.2. Applicable reductions in the Development Environment

Supported User Levels (See Section 4)	Supported	Comments (< 48 Characters)
Basic level	no	
Extended level	yes	Bachmann electronics provides certified vendor function blocks. The programming tool allows to combine standard function blocks to custom function blocks (“compounds”)
System level	no	

**Table 1: Supported user levels**

Supported Programming Languages	Supported	Comments (< 48 Characters)
Function Block Diagram, FBD	yes	FBD editor with freely positionable function blocks
Ladder Diagram, LD	no	

**Table 2: Supported programming languages**

Supported Data Types	Supported	Comments (< 48 Characters)
SAFEBOOL	yes	Attribute “SAFE” as additional part of the data type
BOOL	yes	See TC5, Page 17
INT	yes	32 bit signed
DINT	no	
REAL	no	
WORD	no	
TIME	yes	32 bit signed, values in milliseconds
Other ANY_BIT	no	
Other ANY_INT	no	
Other ANY_REAL	no	
ANY_DATE	no	
STRING	no	

**Table 3: Supported data types**

Supported Functions and FBs – Basic Level	Supported	Comments (< 48 Words)
AND	no	No specific support for basic level, see advanced level
OR	no	
Type Conversion functions	no	
TON	no	
TOF	no	
TP	no	
CTU	no	
CTD	no	
CTUD	no	
Others?	no	

**Table 4: Supported Functions and Function Blocks at Basic Level**