

WWW.SCHMALZ.COM

**Note**

This document were originally written in German and have been translated into English.  
Store in a safe place for future reference.

Subject to technical changes without notice. No responsibility is taken for printing or other types of errors.

**Published by**

© J. Schmalz GmbH, 01.2020

This document is protected by copyright. J. Schmalz GmbH retains the rights established thereby. Reproduction of the contents, in full or in part, is only permitted within the limits of the legal provisions of copyright law. Any modifications to or abridgments of the document are prohibited without explicit written agreement from J. Schmalz GmbH.

**Contact**

J. Schmalz GmbH  
Johannes-Schmalz-Str. 1  
72293 Glatten, Germany

Tel. +49 (0) 7443 2403-0  
Fax +49 (0) 7443 2403-259  
schmalz@schmalz.de  
www.schmalz.com

Contact information for Schmalz companies and trade partners worldwide can be found at

 [www.schmalz.com/salesnetwork](http://www.schmalz.com/salesnetwork)

# Table of contents

1	Function block “FB_PARA_RW_ETH” .....	4
1.1	Brief description .....	4
1.2	Image of function block.....	4
1.3	Parameter - Input.....	5
1.4	Parameter - Output.....	5
1.5	Additional information.....	6
2	Appendix.....	7
2.1	List of abbreviations .....	7
2.2	Note.....	7

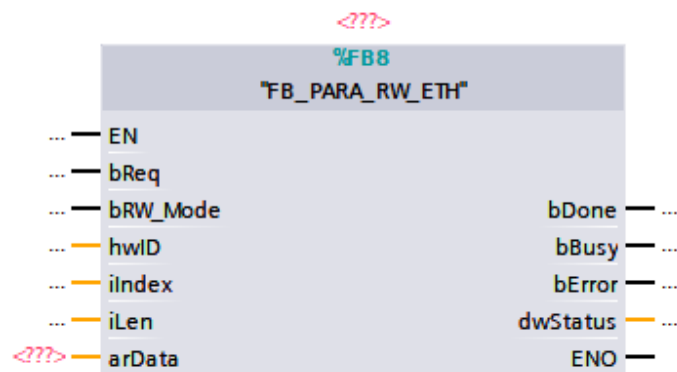
# 1 Function block "FB\_PARA\_RW\_ETH"

## 1.1 Brief description

This function block is used to access parameter data of the respective products via Profinet. The functions Read parameter and Write parameter are available. Please refer to the respective parameter lists for the documents of the corresponding products.

## 1.2 Image of function block

Example of function block:



### 1.3 Parameter - Input

name	data type	description
bReq	BOOL	Execute the read or write process
bRW_Mode	BOOL	Select the mode: 0 = Read 1 = Write
hwID	HW_IO	Specification of the hardware ID of the Hardware module
iIndex	INT	Index of the object to be used
iLen	INT	Number of data to be used in bytes
arData	ARRAY [0..231] OF BYTE	Address (pointer) to the data buffer: Read -> read data available Write -> enter data to be written

### 1.4 Parameter - Output

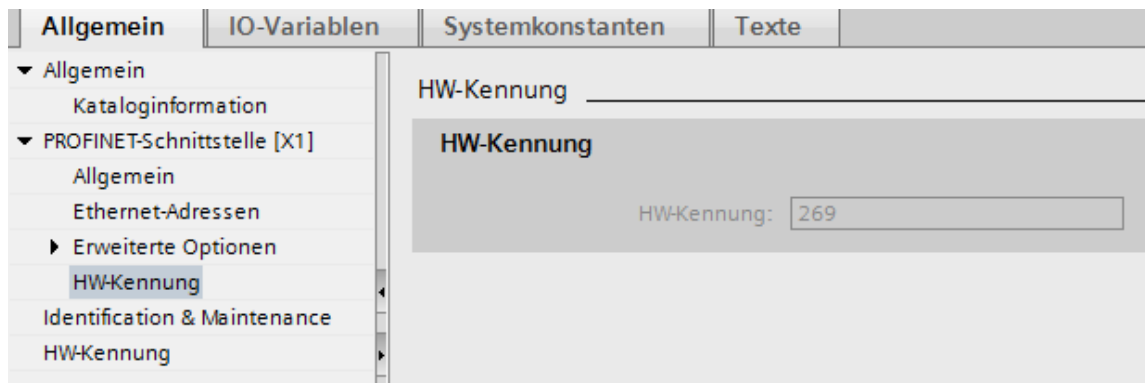
name	data type	description
bDone	BOOL	Record was read or transferred
bBusy	BOOL	Is active during the processing of the process until a feedback occurs
bError	BOOL	Will be activated if an error has occurred
dwStatus	DWORD	Returns the block status or error information (see additional information)

## 1.5 Additional information

In order to be able to map the functions, the corresponding system blocks RDREC and WRREC have been integrated. For information about the status and the error information, refer to the documentation of the system blocks.

At the hwID input parameter, enter the hardware identifier of the hardware module (PROFINET IO) to be processed. The number is assigned automatically and is stored in the properties of the module or the interface in the hardware configuration.

Example of function block – Hardware ID:



The screenshot displays the configuration window for the function block. The left sidebar shows a tree structure with the following items: Allgemein, Kataloginformation, PROFINET-Schnittstelle [X1], and its sub-items: Allgemein, Ethernet-Adressen, Erweiterte Optionen, HW-Kennung (highlighted), Identification & Maintenance, and HW-Kennung. The main area on the right is titled 'HW-Kennung' and contains a text input field labeled 'HW-Kennung:' with the value '269' entered.

## 2 Appendix

### 2.1 List of abbreviations

abbreviation	description
FB	Function block
EPC	Energy- and Processcontrol
CM	Condition Monitoring
EM	Energy Monitoring
PM	Predictive Maintenance

### 2.2 Note

- The byte order of the product is represented as big endian.

## At your service worldwide



● **Headquarters**  
Hauptsitz

Schmalz Germany – Glatten

● **Sales and production companies**  
Vertriebs- und Produktionsgesellschaften

Schmalz China – Shanghai  
Schmalz India – Pune  
Schmalz Japan – Yokohama  
Schmalz USA – Raleigh (NC)

● **Sales companies**  
Vertriebsgesellschaften

Schmalz Australia – Melbourne  
Schmalz Benelux – Hengelo (NL)  
Schmalz Canada – Mississauga  
Schmalz Finland – Vantaa  
Schmalz France – Champs-sur-Marne  
Schmalz Italia – Novara  
Schmalz Mexiko – Querétaro

Schmalz Poland – Suchy Las (Poznan)  
Schmalz Russia – Moskow  
Schmalz South Korea – Anyang  
Schmalz Spain – Erandio (Vizcaya)  
Schmalz Switzerland – Nürensdorf  
Schmalz Turkey – Istanbul

• **Sales partners**  
Vertriebspartner

You can find the Schmalz sales partner in your country at:  
**WWW.SCHMALZ.COM/SALESNETWORK**

Den Schmalz Vertriebspartner in Ihrem Land finden Sie auf:  
**WWW.SCHMALZ.COM/VERTRIEBSNETZ**

**J. Schmalz GmbH**  
Johannes-Schmalz-Str. 1  
72293 Glatten, Germany  
T: +49 7443 2403-0  
schmalz@schmalz.de  
WWW.SCHMALZ.COM

Version 01 | 01.2020