

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
1.6	Additional information.....	6
2	Appendix.....	9
2.1	List of abbreviations .....	9
2.2	Note.....	9

# 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 Ethernet IP.

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
Message	MESSAGE	Configuration of the message function
bReq	BOOL	Execute the read or write process
bRW_Mode	BOOL	Select the mode: 0 = Read 1 = Write
diIndex	DINT	Index of the object to be used
iLen	INT	Number of data to be used in bytes (only necessary when writing)

### 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
iErrorCode	INT	Returns the error information (see additional information)

## 1.6 Additional information

In order to be able to map the functions, the corresponding system function "Message" was used. For information on the error code, refer to the documentation on the system function.

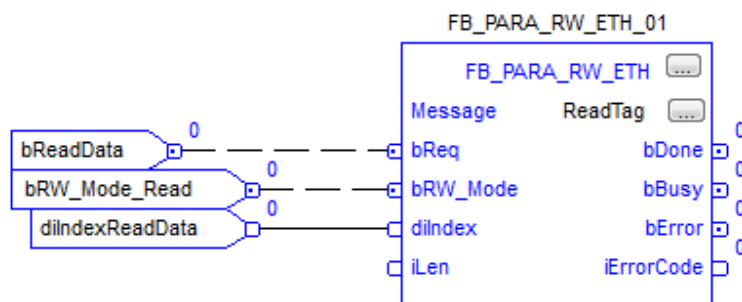
In order to be able to use the function block correctly, 2 variables must be declared in each case.

Example variable declaration – Read:

+ ReadData	{...}	{...}	Decimal	SINT[200]
+ ReadTag	{...}	{...}		MESSAGE

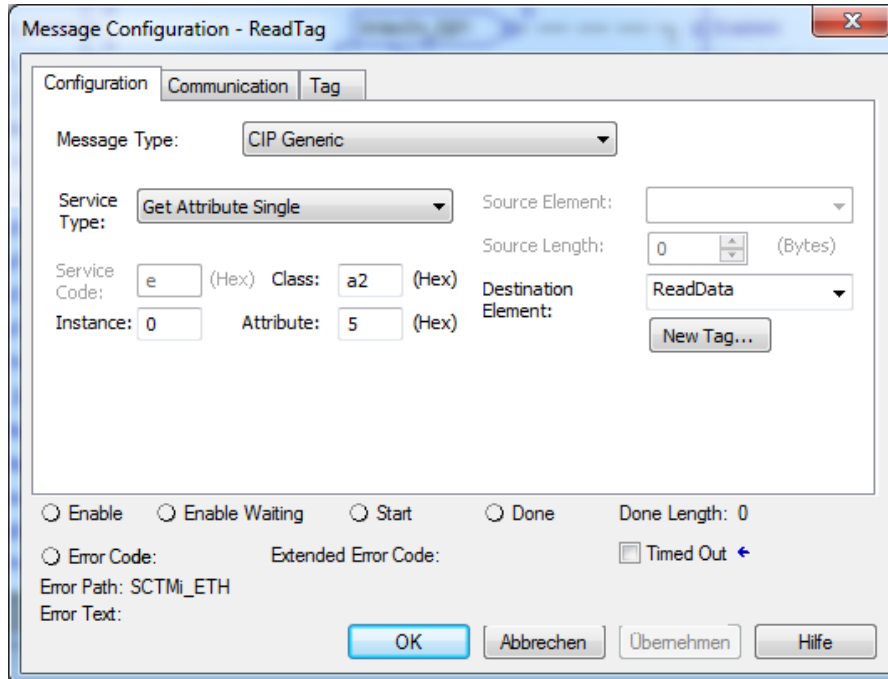
After successful insertion of the function block "FB\_PARA\_RW\_ETH", the corresponding tag must be parameterized and the message configuration opened.

Example function block – Read:

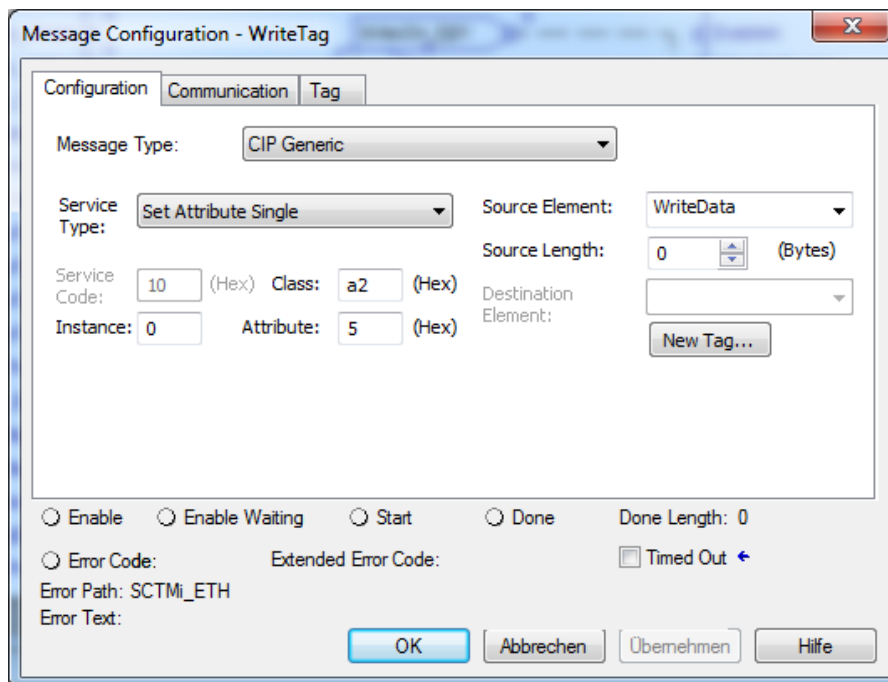


In the message configuration the corresponding "Message Type" and "Service Type" must be selected. Furthermore, the correct "Class" and the "Attribute" must be entered. Next, the "Destination Element" is declared when reading or the "Source Element" when writing.

Example message configuration – Read:

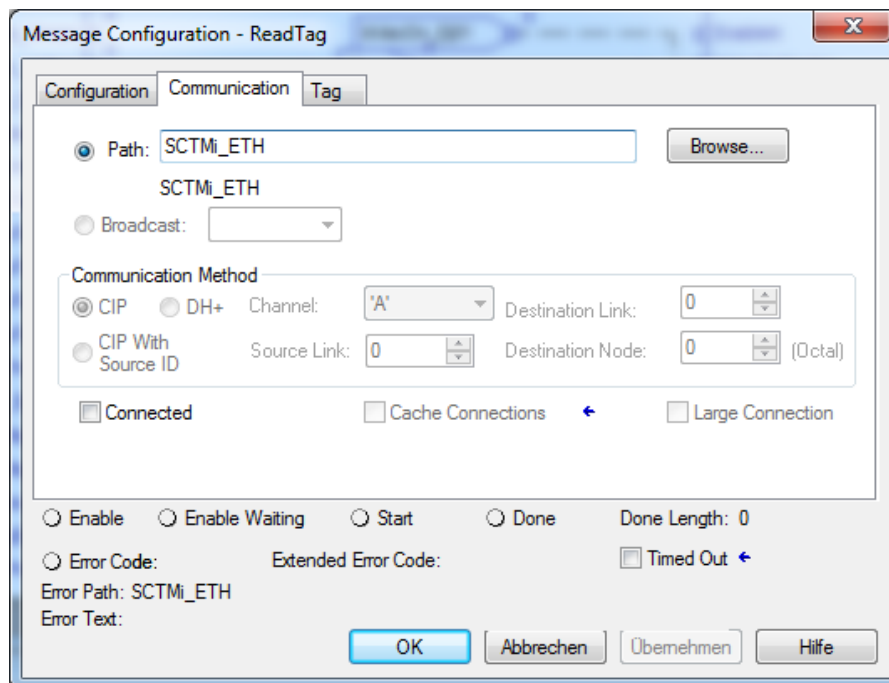


Example message configuration – Write:



To set the communication to the desired device, you have to change to the "Communication" tab. There, under "Path", after selecting "Browse", the corresponding device can be selected.

Example message configuration – Path:



The data is then made available via the variables "ReadData" or "WriteData" in the example.



## 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