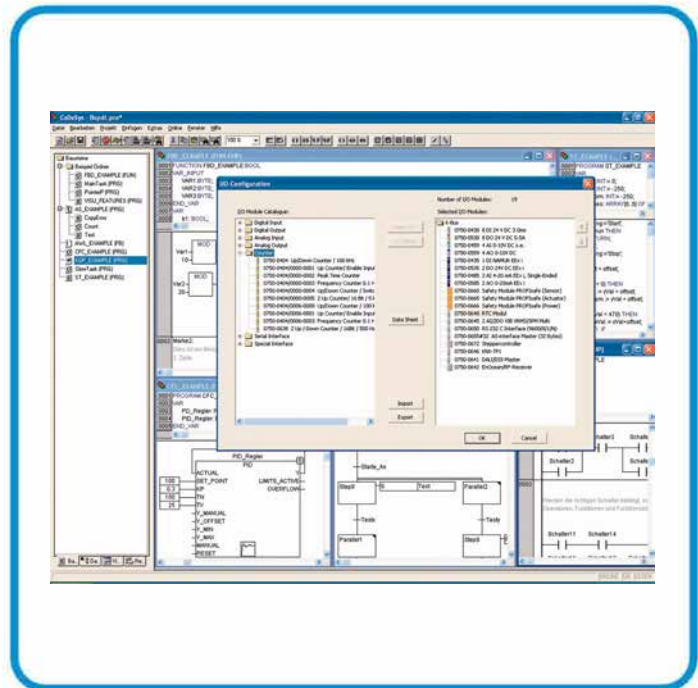


Library Description

AUTOMATION



WAGO Software CODESYS Library **WagoLibDiagnosticIDs.lib** for accessing the internal diagnostics protocol

Version 1.0.0

WAGO®
INNOVATIVE CONNECTIONS

© 2014 by WAGO Kontakttechnik GmbH & Co. KG
All rights reserved.

WAGO Kontakttechnik GmbH & Co. KG

Hansastraße 27
D-32423 Minden

Phone: +49 (0) 571/8 87 – 0
Fax: +49 (0) 571/8 87 – 1 69

E-Mail: info@wago.com

Web: <http://www.wago.com>

Technical Support

Phone: +49 (0) 571/8 87 – 5 55
Fax: +49 (0) 571/8 87 – 85 55

E-Mail: support@wago.com

Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

E-Mail: documentation@wago.com

We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present manual are generally protected by trademark or patent.

Table of Contents

1	Notes about this Documentation.....	4
1.1	Copyright.....	4
1.2	Symbols.....	5
1.3	Number Notation.....	7
1.4	Font Conventions	7
2	WagoLibDiagnosticIDs.lib	8
2.1	DIAGNOSTIC_SEND_ID.....	9
2.2	DIAGNOSTIC_SET_TEXT_FOR_ID.....	11
	List of Tables.....	12

1 Notes about this Documentation

1.1 Copyright

This Manual, including all figures and illustrations, is copyright-protected. Any further use of this Manual by third parties that violate pertinent copyright provisions is prohibited. Reproduction, translation, electronic and phototechnical filing/archiving (e.g., photocopying) as well as any amendments require the written consent of WAGO Kontakttechnik GmbH & Co. KG, Minden, Germany. Non-observance will involve the right to assert damage claims.

1.2 Symbols

 **DANGER**

Personal Injury!

Indicates a high-risk, imminently hazardous situation which, if not avoided, will result in death or serious injury.

 **DANGER**

Personal Injury Caused by Electric Current!

Indicates a high-risk, imminently hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING**

Personal Injury!

Indicates a moderate-risk, potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**

Personal Injury!

Indicates a low-risk, potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Damage to Property!

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.

NOTICE

Damage to Property Caused by Electrostatic Discharge (ESD)!

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.

Note

Important Note!

Indicates a potential malfunction which, if not avoided, however, will not result in damage to property.



Information

Additional Information:

Refers to additional information which is not an integral part of this documentation (e.g., the Internet).

1.3 Number Notation

Table 1: Number notation

Number code	Example	Note
Decimal	100	Normal notation
Hexadecimal	0x64	C notation
Binary	'100' '0110.0100'	In quotation marks, nibble separated with dots (.)

1.4 Font Conventions

Table 2: Font conventions

Font type	Indicates
<i>italic</i>	Names of paths and data files are marked in italic-type. e.g.: <i>C:\Programme\WAGO-I/O-CHECK</i>
Menu	Menu items are marked in bold letters. e.g.: Save
>	A greater-than sign between two names means the selection of a menu item from a menu. e.g.: File > New
Input	Designation of input or optional fields are marked in bold letters, e.g.: Start of measurement range
“Value”	Input or selective values are marked in inverted commas. e.g.: Enter the value “4 mA” under Start of measurement range .
[Button]	Pushbuttons in dialog boxes are marked with bold letters in square brackets. e.g.: [Input]
[Key]	Keys are marked with bold letters in square brackets. e.g.: [F5]

2 **WagoLibDiagnosticIDs.lib**

This library is used to take part in an internal diagnostics protocol via an IEC-61131 application.

You can define your own IDs and provide your own texts for this.

You can also transmit your own diagnostics IDs.

Diagnostics generated in this manner are saved in the system log and displayed in text form, for example, in the WBM.

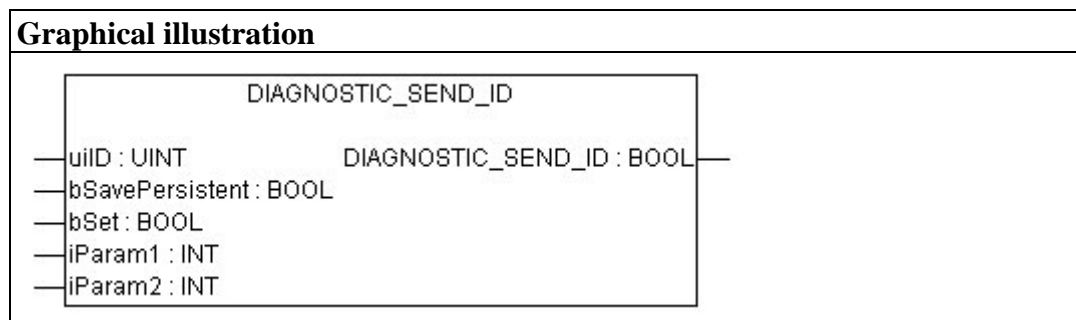
2.1 DIAGNOSTIC_SEND_ID

The DIAGNOSTIC_SEND_ID function is used to transmit diagnostics messages to the system log.

Category	System logging
Name	DIAGNOSTIC_SEND_ID
Type	Function
Name of library	WagoLibDiagnosticIDs.lib
Required libraries	---
Applicable to	750-82xx

Input parameter		
Name	Data type	Description
uiID	UINT	ID to be sent
bSavePersistent	BOOL	Method of saving
bSet	BOOL	Setting/Resetting of diagnostics
iParam1	INT	Additional parameter
iParam2	INT	Additional parameter

Output parameter		
Name	Data type	Description
DIAGNOSTIC_SEND_ID	BOOL	ID, with parameters, to be transmitted



Description

Here, the ID to be transmitted is transferred with additional parameters.

bSavePersistent: If TRUE is transferred here, the diagnostics report is saved in the flash memory and can also be called up after a device restart.

If FALSE is transferred, the diagnostics report is saved to the RAM, meaning it will no longer be available in the log after a device restart.

bSet: It may be useful to know whether some diagnostics reports remain available, or are permanently lost. If TRUE is indicated here, the diagnostics reports are marked as being present in the log. If FALSE is indicated, a diagnostics reports that will no longer be available is marked.

iParam1 and **iParam2:** Here, you can attach additional values as INT values to the diagnostics reports.

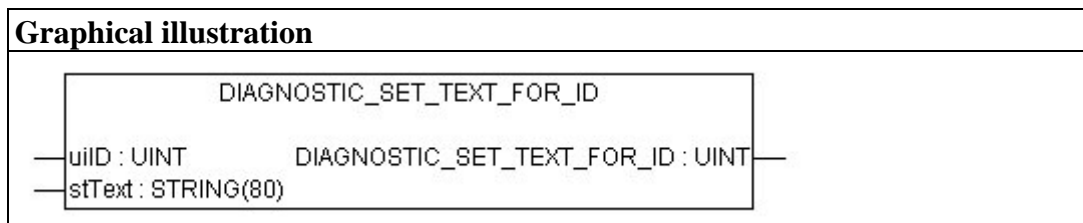
2.2 DIAGNOSTIC_SET_TEXT_FOR_ID

The DIAGNOSTIC_SET_TEXT_FOR_ID function is used to define texts for diagnostics IDs.

Category	Diagnostics definition
Name	DIAGNOSTIC_SET_TEXT_FOR_ID
Type	Function
Name of library	WagoLibDiagnosticIDs.lib
Required libraries	---
Applicable to	750-82xx

Input parameter		
Name	Data type	Description
uiID	UINT	ID to be sent
stText	STRING(80)	String to be used

Output parameter		
Name	Data type	Description
DIAGNOSTIC_SET_TEXT_FOR_ID	UINT	Diagnostics ID



Description
<p>The diagnostics reports are saved as IDs in the system log and replaced by the texts defined here when read out.</p> <p>The additional parameters can be incorporated into the text. To do this, enter "\$1" for the first and "\$2" for the second parameter. In CODESYS, "\$" is a special character and must therefore be written as "\$\$", e.g.,</p> <p>"Malfunction - system down. \$\$1 parts were not finished!"</p> <p>This sentence would be displayed in the WBM under "Diagnostics" as follows:</p> <p>"Malfunction - system down. 123 parts were not finished!"</p>

List of Tables

Table 1: Number notation.....	7
Table 2: Font conventions	7

WAGO Kontakttechnik GmbH & Co. KG
Postfach 2880 • D-32385 Minden
Hansastraße 27 • D-32423 Minden
Phone: +49/5 71/8 87 – 0
Fax: +49/5 71/8 87 – 1 69
E-Mail: info@wago.com
Internet: <http://www.wago.com>

