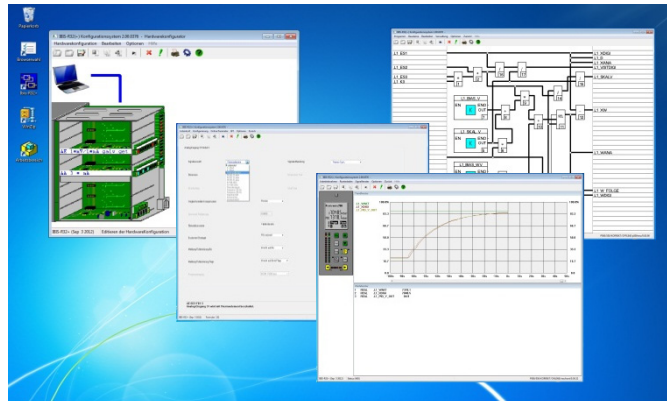# Configuration and parameter setting software IBIS-R32+ for process controller D100/500 and P100/500/550

Measurement made easy

Commissioning Instruction
Configuration and parameter setting software
IBIS-R32+

Power and productivity
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![ABB logo]

Configuration and parameter setting software IBIS-R32+
for process controller D100/500
and P100/500/550

Commissioning Instruction - EN

CI/IBIS-R32PLUS-EN

The complete user manual is included as a PDF file on the software CD-ROM.

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Typographical conventions

The formats listed below are used to provide certain items of information:

Menu item — Reference to menu item
[Text] — Reference to on-screen button
<Key> — Reference to key on the keyboard
„Chapter" — Reference to chapter or section in the manual

Operation notes

Operation of IBIS-R32 is based on the Microsoft-Windows standard. Functions provided by Windows are not described separately here. For this reason, you need general knowledge on how to handle Windows. Refer to the Windows user's guide. The formats listed below are used for specific operations: →Menu item Select the menu item using the mouse (click left mouse button) or using the keyboard commands corresponding to the Windows standard.

→<Key> Press the specified key on the keyboard.

→<Key1+Key2> Press the specified keys simultaneously on the keyboard.

→[Text] Choose (= click) the specified button in the dialog box.

Attention for Update:

Before installing export projects with the previous version!

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Table of contents
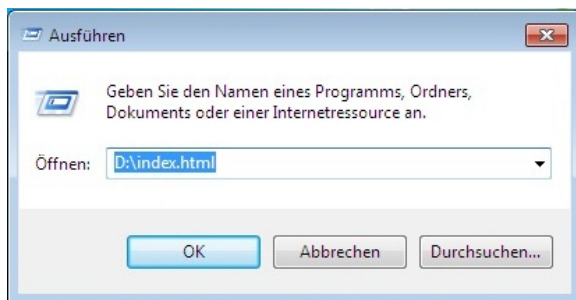
1   Installation

1.1   System requirements

- Processor minimum 80386
- RAM minimum 1 GB.
- Aviailable diskspace minimum 64 MB.
- Monitor and monitor driver minimum VGA standard.
- Windows XP, WIN7 32/64 BIT, WIN8
- A graphics-capable prinzer, supported by a Windows driver, should be used.

Note

IBIS-R32 does not disable mutual file access on networks. For this reason, there are often problems regarding concurrent access to files if this is not managed over the network.

1.2 Install

1. Place program CD in drive D:. If the CD- drive is E:, replace the CD drive name in the work steps below.

2. Load the Windows Program Manager.

3. →File→Run

4. Type D:\Index.html and →[OK]

5. Follow the instructions in the Setup routine to install IBIS-R32
6. Press [Cancel], if you want to interrupt the Setup routine.

The Setup routine generates a new program group called IBIS-R32. This program group stores IBIS-R32 as an application program.

In addition, the IBIS-R32.INI file is stored in the Windows directory containing the basic settings for IBIS-R32. Do not change this file, otherwise the function of IBIS-R32 will be impaired.

1.3 New program versions

Separate installation instructions are provided for installing new program versions of IBIS-R32.
Access to project files in the mass memory is not always guaranteed when a new program version is used.

Files compiled with an older version must be exported from the old and imported into the new one
(refer to "2.3 Exporting from a project" and "2.3 Importing into a project" in the user manual UM/IBIS_R32PLUS-EN).

1-2 **Installation**

![ABB logo]

1.4 Starting IBIS-R32

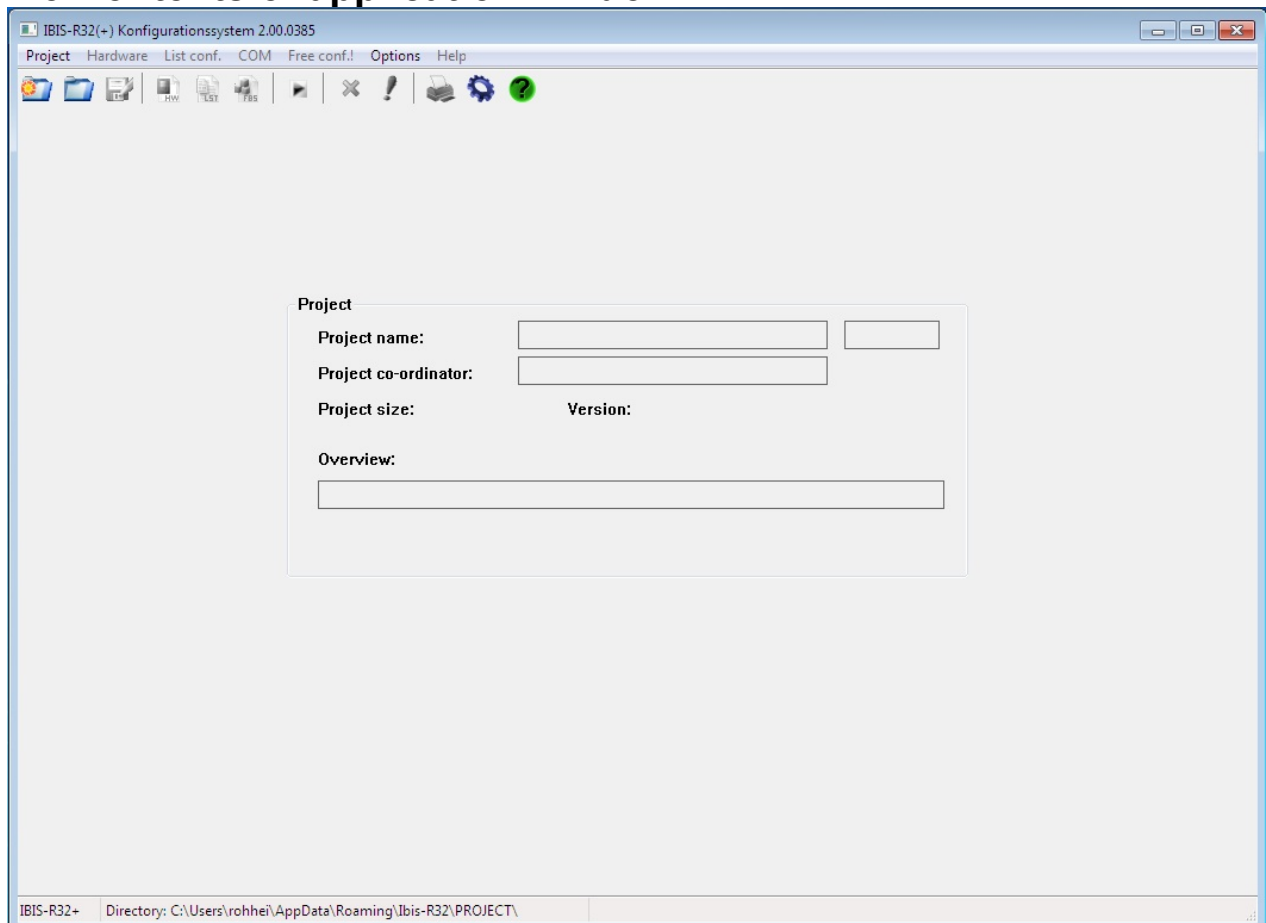Start the IBIS-R32 program by double-clicking the

IBIS-R icon in the IBIS_R Program Group.

If the requirements listed in the section "1.1 System require

ments" are not fulfilled, an error message is displayed.

If not already available on starting, a file called IBIS_RDB.HBX is created in the Windows directory. Do not change this file.

If memory is not sufficient for IBIS-R32, an error message is displayed. To provide enough memory, all other applications should be closed. To control available memory, use →Programm manager→Help→Info.

1.5 Contents of application window

After starting the program, the application window appears and you can select items in the menu bar which execute various parts of the program and actions.

Additional information is provided in the footer. Its contents are described in detail in the following sections.
Project name with max.32 characters, including 8 characters that are managed by the controller

1.5.1 Project

After program start, you need to select this menu item in order to process a configuration. The menu item is described in detail in the section "2 Project Manager" in the user manual UM/IBIS_R32PLUS-EN.
Only after processing this menu item program parts for generating or editing a controller configuration can be selected.

1.5.2 Configurators

After you have created a new project or loaded an existing one, you can access the configurators to create a controller configuration. You can access the following configuration routines:

Hardware
   The hardware configurator helps you to define the module configuration in the slots for the controller type you selected for the project. You can use this configuration during a session to check its plausibility.

List conf.
   The list configurator hepls you to reply to queries and type in values for parameters. This configures the unit, the I/O level and the control loops.

Free conf.!
   In addition to the list-type configuration for the unit, you can generate a graphic configuration using a funktion-module configurator.

1.5.3 Commissioning/COM

In order to put a configuration into operation, you must load it

into the controller. You can use the start-up routine called COM to do this. Start the routine with →COM.
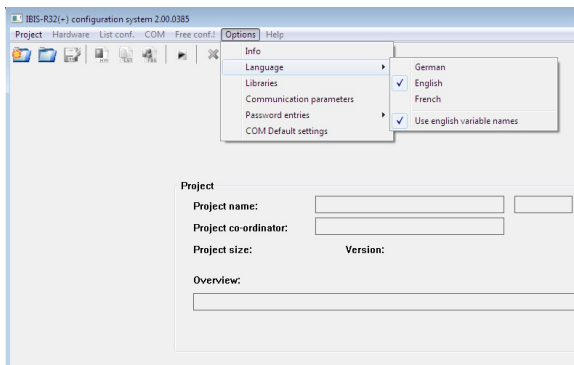
For a detailed description, refer to the section "6 Commisioning" in the user manual UM/IBIS_R32PLUS-EN.

1.5.4 Options

About

provides product information on IBIS-R32: free-style con-figuration is (not) available.

BIS-R32(+

Controller-Configuration-System

2.00.0385

FUPLA is

supported!

Copyright (c) 1993,

Next

Language selection

selects the language you want for the user interface. A submenu containing the possible languages appears for your choice. Switchover to a new language takes place immediately. Planned languages which are not yet implemented are displayed dimmed. You should only switch over to a different language if you have a different language version of Windows for this language.

Library version

Select library

Path   c:\program files\ibis-r32\bin\..\Lib3006\

Following firmware versions are supported:

für P 100:	from 1.200
für P 500:	from 1.200
für P 700:	from 1.264
für D 100:	from 1.200
für D 500:	from 1.200
für D 700:	from 1.264

Version   3.6.0

OK   Cancel

Library management

IBIS-R32 works with the library 3.6.0. A switch to different version of the controllers is not possible.

Libraries in IBIS-R32 contain parts of the hardware and descriptions of the list configuration and functional modules which can be supplied with a controller. Therefore, always forming a part of a firmware version of a controller is a clearly identifiable IBIS-R32 library. One library can however be valid for several firmware versions.
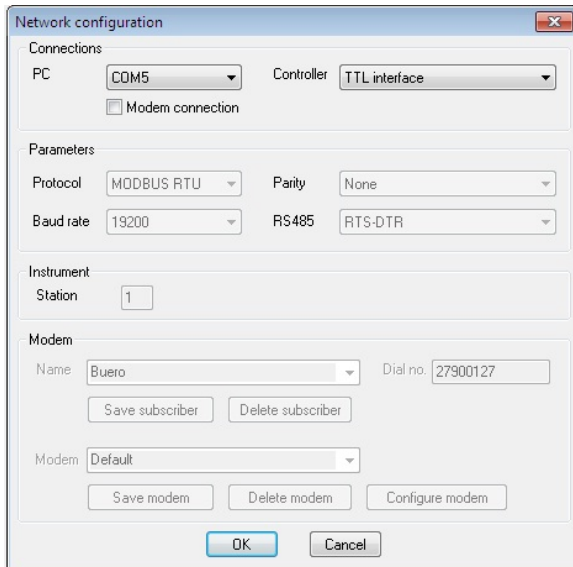
When creating a new configuration (of a new project) with IBIS-R32, it must be predetermined for which firmware version it is being created.

If necessary, the controller via a firmware update be placed on Library 3.6.0
This menu item can also be selected for checking the selected library even when a project has been accessed.

1-5 **Installation**

![ABB]

Network configuration

Connections
PC COM5 ▼   Controller TTL interface ▼
☐ Modem connection

Parameters
Protocol MODBUS RTU ▼   Parity None ▼
Baud rate 19200 ▼   RS485 RTS-DTR ▼

Instrument
Station 1

Modem
Name Buero ▼   Dial no. 27900127
Save subscriber   Delete subscriber

Modem Default ▼
Save modem   Delete modem   Configure modem

OK   Cancel

Communication parameters

sets the communication parameter for a serial connection to a unit.

Connections

PC COM1 to COM16
Defines the port conncting zhe computer to the controller

Controller
Front or rear panel
Informs the computer whether the controller is connected via the integrated configuratuin port (with the front panel dismounted) or via the retrofitted RS 485 port module on the rear panel.

Parameters

The parameters are only required for connecting the controller via the rear-panel RS 485 port. If the IBIS-R32 uses the front-panel port, you cannot change these parameters. The values displayed then have no meaning.

Protocol MODBUS RTU equipment bus Enter the protocol configuration for the controller.

Parity even -odd Enter the parity configuration for the controller.

Baud- 600, 1200, ..., 38400
Rate Enter the baud rate configuration for the controller.

RS485 invers RTS-DTR, none, RTS-DTR The controller of the changeover signal for one of the RS-485 converters postconnected to the RS-232 port if IBIS-R32 is connected to the controller by means of the retrofittable RS-485 port module.
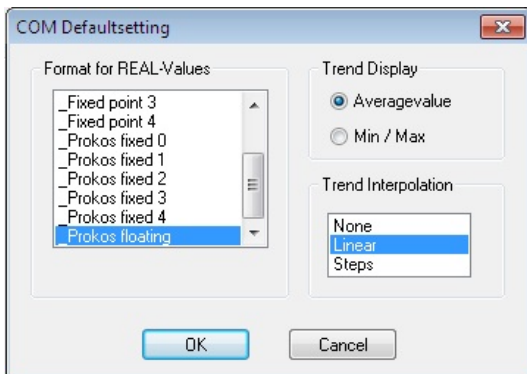
Unit

Station 0 -127

If the computer is configured as the master in an RS 485 network, you can use the station number to access the corresponding controller by which the station number is entered.

The settings you have made are stored at the end of your session with IBIS-R32. It is not necessary to reset the environment you want every time.

Password inputs

If the controller connected to the port is protected against un-authorized user access by means of a password, you can only access the controller characteristics by entering a password (list password).

COM Basic settings

ask for the format of the figures in the value window for set point and actual value of the controller for the very first begin of a new project in the commisioning phase, as well as the trend inter-polation between two displayed values and the type of display for bigger time intervals. Also refer to "6.8.4 Options" in the user manual UM/IBIS_R32PLUS-EN.

These settings are valid for all other new projects till these are remodified.

1-7 **Installation**

1.5.5 Footer

IBIS-R32+   Directory: C:\Users\rohhei\AppData\Roaming\Ibis-R32\PROJECT\   P500/550/CORRECT/OFFLINE/engl/0.01.00.00
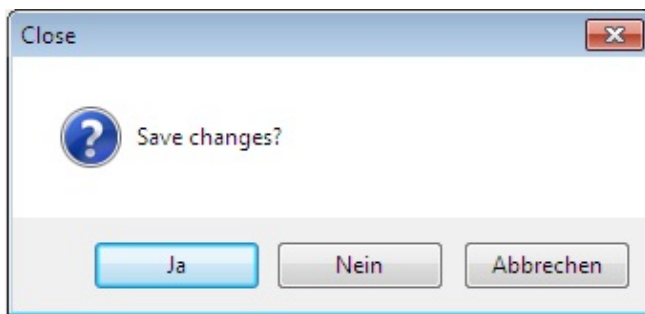
Displays on the left the current directory setting for storing a

project located in the memory and its name.

On the right are the digits for the equipment variants, the status
of the communication link ONLINE or OFFLINE, the plausibility status CORRECT or INCORRECT, the project name and the project version.
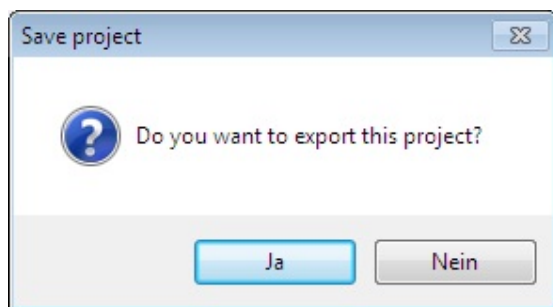
1.5.6 Help

Not supported at present.

1.6 Ending IBIS-R32

You can end your session with IBIS-R32by →Project
.   →Quit. At this time, you can still reject all the changes you have made since you opened the project or store the changes you have made.
→[Yes]   saves all changes.
→[No]   rejects all changes and the project
                 status at the time of loading is retained.
→[Cancel]   cancels the request to end IBIS-R32
                 and the current project status is
                 retained and the project is not removed
                 from the desktop.

If the changes are saved, there is a further query as to whether the project should also be exported:
→[Yes]   leads to the input mask for exporting.
                  Also refer to "2.5 Exporting a project" in
                  the user manual UM/IBIS_R32PLUS-
                  EN.
→[No]   ends IBIS-R32, without exporting the
                  project.

1.7 Error messages

If error messages appear during your session with IBIS-R32, you should save the current project if possible, end WINDOWS and restart.

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Translation of the original instruction

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