



WAGO-I/O-SYSTEM 750

Libraries for Building Automation

Release Note and library version

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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

Tel.: +49 (0) 571/8 87 – 555
Fax: +49 (0) 571/8 87 – 8555

E-Mail: support@wago.com

Every conceivable measure has been taken to ensure the correctness and completeness of this documentation. However, as errors can never be fully excluded, we would appreciate any information or ideas at any time.

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1 Release Note

03.11.2017 BUILDING HVAC 03.lib (V3.11)

- Better Handling of FbRedundancyUnits.

05.09.2017 KNX 02.lib (V2.8)

- Bugfix FbKNX_Master_646_TM
READ-response were not received

28.08.2017 BACnet 02.EXP

- New German BACnet_Scheduler visualizations added

27.07.2017 BACnet 02.lib (V2.6)

- Bugfix FbBACnetSchedule
Midnight entries (00:00:00) with datatype differently to Null will
move back to the last midnight entry with Null

27.07.2017 SMI 163x 01.lib (V1.0)

- New library SMI_163x_01.lib for the SMI Master Module 753-160x
added
- New SMI_163X_01_DE.EXP added.
Visualization for configuration
- New SMI_163X_01_EN.EXP added.
Visualization for configuration

07.07.2017 WeatherForecast HKW 01.lib (V1.1)

- Bugfix FbHKW_WeatherStationCompact
- New function block FbHKW_SearchCity added

06.07.2017 KNX 02.lib (V2.7)

- New function block FbKNX_Master_646_TM for the transparent
mode added

06.07.2017 BACnet 02.lib (V2.5)

- Bugfix FbBACnetNative_AO
xNull/bPriority were not sent by change of value

06.07.2017 MBUS 649 01.lib (V1.5)

- New library MBUS_649_01.lib for the M-Bus Master Module 753-649 added

06.07.2017 MBus 03.lib (V2.4)

- Moved to *zz_Previous_Version.zip*

04.07.2017 EnOcean 06.lib (V6.8)

- New function block FbA51409_Window_DoorSensor added

28.06.2017 EnOcean 06.lib (V6.7)

- Bugfix FbA510xx_RoomOperatingPanel
Relative humidity was displayed as negative number

26.06.2017 BACnet 02.lib (V2.4)

- New function block FbBACnetSchedule added
- New function block FbBACnetSchedule_small added
- New function block FbBACnetTimeBeforeOperation added
- New BACnet_02.EXP.
Visualisation for BACnetScheduler added

19.06.2017 DALI 647 04.lib(V4.6)

- New feature for FbDaliPresenceSensor and FbDaliLightSensor.
When the Watchdog time elapsed, the function block sends a query command to the sensor.
- New DALI_647_04.EXP.
Visualisation for Device Type 1 (Emergency Lighting) added
- Bugfix Fb_ConfigEmergencyLighting
The Emergency Status wasn't deleted, when the short address isn't available.
- New feature for FbDaliPresenceSensor
When "tOffDelay" = t#0s", the function block reacts on a stop event from the sensor.
- New function block FbDaliWrite_XY_CoordinateScene

19.06.2017 DALI 647 SpecialSensor 02.lib(V2.3)

- New feature for FbSensorSteinel and FbSensorThebenHTS.
When the Watchdog time elapsed, the function block sends a query command to the sensor.

- Bugfix PrgDaliConfigThebenHTS. In some cases the “Acknowledge” dialog doesn’t appear.
- New DALI_647_SPECIALSENSOR_02.EXP.
Scaling for the configuration of the Steinel Sensors added.

08.06.2017 Genibus 01.lib (V1.3)

- This version eliminates problems at using several Genibus lines which might occurred with the previous version.

06.06.2017 Enocean 06.lib (V6.6)

- New function block FbThermokonSTC65_RS485_EVC_Config added.
- Bugfix FbD211xx_RoomOperatingPanel.

29.05.2017 MpBus 03.lib (V3.2)

- New function block FbMpBusEPIV_6way_valve added.
- New function Fu_NTC10K added.
- Bugfix FbMpBusCommand.

10.05.2017 DALI 647 SpecialSensor 02.lib(V2.2)

- Bugfix FbSensorThebenHTS and FbSensorSteinel, when tWatchdog = t#0s.

10.05.2017 DALI 647 04.lib(V4.5)

- Bugfix FbDaliLightSensor and FbDaliPresenceSensor, when tWatchdog = t#0s.

09.05.2017 BUILDING HVAC 03.lib (V3.10)

- New function block FbRedundancyUnits added

04.05.2017 DALI 02.lib(V2.14) & DALI 02.EXP

- Moved to *zz_Previous_Version.zip*

04.05.2017 DALI EmergencyLightning 01.lib(V1.2)

- Moved to *zz_Previous_Version.zip*

24.04.2017 DALI 647 04.lib(V4.4)

- Bugfix FbMaster753_647

13.04.2017 DALI 647 04.lib(V4.3)

- FbDaliMaster indicates when the DALI-Multi-Master Module isn't available.
- FbDaliIdentifySensor modified, so that during the identification the short addresses could be changed.
- Bugfix FbDaliConfigLightSensor and FbDaliConfigPresenceSensor

12.04.2017 DMX 02.lib(V2.0)

- New library DMX_02.lib substitutes the library DMX_01.lib
- DMX Master or Slave feature is supported

23.03.2017 DALI 647 SpecialSensor 02.lib(V2.1)

- Bugfix: FbConfigSteinel
- Bugfix: FbConfigThebenHTS
- Bugfix: Query Light level FbSensorSteinel
- Bugfix: Visualisation DALI_647_SpecialSensor_02.exp

23.03.2017 DALI 647 04.lib(V4.2)

- Improvement FbConstantLightControl, when the new reference value will be calculated.
- Bugfix: Visualisation DALI_647_04.exp

20.03.2017 Genibus 01.lib (V1.2)

- New function block Fb_Magna3_Pump added
- New function block Fb_Magna3_HeatEnergy added
- New function block FbGeni_Get_MeasuredData_32Bit added

20.02.2017 DALI 647 04.lib (V4.1)

- Master with inputs and outputs for linking the process image directly reintegrated.

20.02.2017 MpBus 03.lib (V3.1)

- New library substitutes MpBus_02.lib.

07.02.2017 EnOcean 06.lib (V6.4)

- Bugfix: 750-642-module handles the 4-byte-telegrams now correct.

30.01.2017 ColourConverter 01.lib (V1.2)

- New function block FbCCT_control added
- Bugfix function block FbColorFader and FbColorCrossFader

19.01.2017 DALI 647 SpecialSensor 02.lib (V2.0)

- New library substitutes DALI_647_SpecialSensor_01.lib and works only with the DALI_647_04.lib.

19.01.2017 DALI 647 04.lib (V4.0)

- New library substitutes DALI_647_03.lib.

22.11.2016 Building HVAC 03.lib (V3.9)

- Add new function block FbHxControl

19.12.2016 DALI 647 03.lib (V3.1)

- Bugfix in function block “FbMultiSensorType1”: Output values were not available.

28.11.2016 DALI 647 SpecialSensor 01.lib (V1.0)

- New library for connecting “Steinel LiveLink” sensors and “Theben HTS PlanoSpot 360 DALI” via DALI

28.11.2016 DALI 647 03.lib / DALI 647 PFC 03.lib (V3.0)

- KBus.lib integrated into Master function block
- New library DALI_647_03.lib substitutes the following libraries: “DALI_647_SensorType1_02.lib”, “DALI_647_SensorType2_02.lib”, “DALI_647_ColourControl_02.lib”, “DALI_647_EmergencyLighting_02.lib”
- FbAddressingSensorType2: MSensor-Mini Broadcast integrated
- FbConfigMultiSensorType2: LegalAddresses is queried, MSensor-Mini Broadcast integrated
- Integration of DALI 2 Standard sensor

22.11.2016 Building HVAC 03.lib(V3.7)

- Improvement of FbStartStopHeatingCircuit. The variable “xAutoCalibration” can be deactivated manually.

- Bugfix FbHeatingCharacteristic: Limit function, if rCurve is zero.

18.11.2016 KNX 02.lib (V2.5)

- Bugfix in calculation of 2Byte_float DTP

17.11.2016 EnOcean 06.lib (V6.2)

- New EnOcean Equipment Profile D2-11-xx added (SMART-ACK)
- Mod_com.lib data access is replaced by WagoLibKBUS.lib
- Bugfix: FbD500xx_ContactsAndSwitches : Output value fixed
- Bugfix: FbA510xx_RoomOperatingPanel: Set point correction fixed

28.09.2016 Enoccean 06.lib (V6.1)

- Decoding in Gateway with compatibility mode for 4BS fixed

16.09.2016 ColourConverter 01.lib (V1.0)

- Colour effects and converter library.

16.09.2016 Enoccean 06.lib (V6.0)

- New Enoccean lib supporting Smart ack.
- This library is not compatible with the old Enoccean library.

14.09.2016 Visu Scheduler 03 e.lib (V3.4)

- Equalize to Scheduler_03.lib (V3.4)

14.09.2016 Visu Scheduler 03 d.lib (V3.4)

- Equalize to Scheduler_03.lib (V3.4)

13.09.2016 WagoBuilding 01.lib (V1.17)

- Bugfix: Dimmer single button functional bugfixes.

24.08.2016 ThebenKNX DALI 02.lib (V2.3)

- Bugfix: switching object did write to KNX bus after received switch telegram on same object.

29.06.2016 WagoBuilding 01.lib (V1.14)

- Bugfix: Exponent parameter in dimmer functions fixed.
- Bugfix: Dimm direction of single button with feedback signal fixed.
- Bugfix: Calculation of dim period in dimmer functions refactored.

23.06.2016 Scheduler 03.lib (V3.4)

- Bugfix: Orthographic mistake fixed.

12.05.2016 WagoBuilding 01.lib (V1.9)

- Bugfix: SlatTracking Parking position keeps true, when out of angle range
- Feature: SingleButton now react on dim direction of feedback signal

26.04.2015 KNX 02.lib (V2.4)

- This version eliminates an initialisation problem, which might occur with the previous version. ETS5 application download could be interrupted.

05.04.2016 WagoBuilding 01.lib (V1.8)

- Bugfix: CalculateSunriseSunset daylight saving time is now correctly integrated

30.03.2016 DALI 647 SensorType2 02.lib (V2.3)

- Bugfix FbLocateSensorType2: Locate sensors with broadcast address "255" was added.
- Bugfix FbMultiSensorType2: Besides the remote control RC6 the remote control RC5 was added.

30.03.2016 DALI 647 SensorType1 02.lib (V2.3)

- Bugfix FbLocateSensorType1: The check for the correct address was added.

21.03.2016 WagoBuilding 01.lib (V1.7)

- Bugfix: CalculateSunPosition with negative Longitude and CalculateSunriseSunset calculation corrected through round with infinitely constants

24.11.2015 WagoBuilding 01.lib (V1.5)

- Feature: Second Time Out Parameter in wind alarm can be used to evaluate sensor connection.

13.11.2015 WagoBuilding 01.lib (V1.4)

- Bugfix in maintenance function of sunshade actuator.

03.11.2015 WagoBuilding 01.lib (V1.3)

- Bugfix: Fu10Point linearization fixed.

02.11.2015 ThiesModbusWeatherSensors 01.lib (V1.0)

- New library for THIES weather sensors.

02.11.2015 Visu Scheduler 03 d.lib (V3.3)

- New folder structure. Sorted by associated function blocks.
- Numpad visu pages were added. They are similar to the “normal” pages, only Numpad function was added at the input fields.

02.11.2015 Visu Scheduler 03 e.lib (V3.2)

- New folder structure. Sorted by associated function blocks.
- Numpad visu pages were added. They are similar to the “normal” pages, only Numpad function was added at the input fields.

30.10.2015 DALI 647 02.lib (V2.5)

- Actual dim value gets synchronised cyclic with module database.
- Existing short addresses get checked when reading dim values. Not existing addresses are set to invalid value (over 100%).
- Add new option in dimmer single button to determine dim direction after switch on.

23.10.2015 Scheduler 03.lib (V3.3)

- Bugfix in calculation of daylight saving in FuDT_LocalTime
- FbTime_RTC_Module is removed from build because of compatibility reason with PFC controller 750-820x
- Add new function block FbTime_RTC_Modul_640
- FuDT_To_DetailTime has extended output data (bWeekday)

14.09.2015 DALI 647 SensorType2 02.lib (V2.2)

- Bugfix: FbSortAddressesSensorType2 (intern) by clicking on „Assign“, the module number will be saved correct now.
- FbAddressingSensorType2: Push button coupler will be set automatically into “Active Mode” after addressing.

11.09.2015 DALI 647 SensorType1 02.lib (V2.2)

- Bugfix: FbAddressingSensorType1 Protocol ID from 67 to 35 changed.
- Bugfix: FbSortAddressesSensorType1 (intern) by clicking on „Assign“, the module number will be saved correct now.

31.08.2015 WagoBuilding 01.lib (V1.2)

- Bugfix: FbSlatTracking did retrigger parking position out of azimuth range.
- Bugfix: bPartitionWallSunshadeControl did not work with permanent signals and could watch to wrong addresses after Online-Change.

25.08.2015 DALI 647 EmergencyLighting 02.lib (V2.0)

- This library replaces DALI_647_EmergencyLighting_01.lib
- EXP data for CODESYS visualisation also updated
- Emergency lighting library using DALI_647_02.lib as reference library

20.07.2015 Enocean 05.lib (V5.4)

- All Function blocks wait for telegram update then calculate the data bytes accordingly.
- Default value for temperature is set to 20.0 °C

16.07.2015 Building HVAC 03.lib (V3.5)

- Bugfix: FbLowPassFilter calculations of negative output values were wrong.

25.06.2015 Building HVAC 03.lib (V3.4)

- Bugfix FbPIDController when xChangeInDirection is activated.
- The decimal places are now configurable for the FbImpulseCounter and all FbLowPassFilter function blocks.
- Bugfix FbPump_FC during follow-up time.

15.06.2015 WagoBuilding 01.lib (V1.1)

- Bugfix: Recovery-function of FbAdvancedLatchedRelay did not work with last recovery value.

15.06.2015 DMX 01.lib (V1.1)

- The util.lib is removed from the library.
- FbDMX_ChangeChValues fixed for failing to update channel values simultaneously.

12.06.2015 DALI 647 02.lib (V2.3)

- Bugfix: xReady from FbSceneConfig, when xSendOnDelta is deactivated
- Export file for visualization adapted: DALI_647_02.EXP

12.06.2015 DALI 647 SensorType2 02.lib (V2.1)

- New function block: FbAddressingSensorType2
- New function block: FbLocateSensorType2
- New program: PrgDALIConfigSensorType2
- New Export file for visualization created:
DALI_647_SensorType2.EXP (only applicable in cooperation with
DALI_647_02.EXP)

12.06.2015 DALI 647 SensorType1 02.lib (V2.1)

- New function block: FbAddressingSensorType1
- New function block: FbLocateSensorType1
- New program: PrgDALIConfigSensorType1
- New Export file for visualization created:
DALI_647_SensorType1.EXP (only applicable in cooperation with
DALI_647_02.EXP)

03.06.2015 WagoBuilding 01.lib (V1.0)

- New library WagoBuilding_01.lib substitutes the
Gebaeude_allgemein.lib and the Building_Common.lib

06.05.2015 KNX 02.lib (V2.3)

- Bugfix: Optional RETAIN data (typDPT) was overwritten when using
KNX-TP1 module 753-646.

14.04.2015 BACnet 02.lib (V.2.3)

- This version eliminates an initialisation problem, which might occur with the previous version at FbBACnetPriorityArray_AV and FbBACnetPriorityArray_BV.

02.04.2015 MBus 03.lib (V2.4)

- Changed receive buffer size from 255 to 261 bytes. The consumption meter Kamstrup Multical 602 needs this extended buffer size.

17.03.2015 MpBus 02.lib (V2.7)

- Changed error handling in FbMpBusRoomSensor
- Changed error handling in FbMpBusEnergyValve

20.02.2015 SMI 02.lib (V2.3)

- Update of manufacturer IDs in visualization objects

10.02.2015 KNX 02.lib (V2.2)

- Bugfix: Hardware type was not written correctly by FbKNX_Master_646 when controller 750-889 was used.

04.02.2015 DALI 02.lib(2.14)

- Bugfix: FbDALI_DimmEasy, FbDALI_DimmSingleButton and FbDALI_LatchingRelay have stored the last reference value, when changing from group commands to short addresses.

05.01.2015 DALI 647 02.lib und DALI 647 PFC 02.lib(V2.2)

- The FbStatusControlGear acknowledged the Error Code 5 automatically.
- Bugfix: The FbConstantLightControl didn't switch off the light, when the min. dim level is reached.

25.11.2014 ThebenKNX DALI 02.lib (V2.1)

- New library ThebenKNX_DALI_02.lib substitutes the library ThebenKNX_DALI_01.lib
- This library is based on the DALI module 753-647 and the new KNX library KNX_02.lib.

28.10.2014 KNX 02.lib (V2.1)

- Bugfix: Data points of 750-889 IP-Controller were not synchronized correctly when a second KNX-module 753-646 was used.

17.09.2014 KNX 02.lib (V2.0)

- New library KNX_02.lib substitutes the KNX_Standard.lib

17.09.2014 KNX Standard.lib (V1.7)

- Changed data structure typKNX and extended global variables in order to simplify replacement of 750-849 controller by 750-889 controller

15.09.2014 DecodeFlexweather 01.lib (V1.0)

- New library for decoding signals received from flexROOM® Weather

15.09.2014 RomotecModbusRTU 02.lib (V2.2)

- New function blocks FbBDH1403, FbBDH2203, FbBAH4001 and BDH1402

19.08.2014 DALI 647 02.lib(V2.1) and DALI 647 PFC 02.lib

- Cyclic query of the module status
- Performance improvement of FbDaliConstantLightControl

26.06.2014 DALI 647 02.lib (V2.0)

- The library replaces DALI_647_01.lib
- The function block interfaces “bAddress”, “xGroup” and “bModule_753_647” were centralized in the data type “typBallast”.
- The function block “FbMaster753_647_IPC was removed.
- The interface “xSetSelected” was added in the function block “FbDaliOperatingHours”.
- Changes in the function block “FbDaliConfigConstantLightControl”:
 - Bugfix at the interface “xToggle”.
 - The new reference value will be detected 30s after dimming.
- The following function blocks were added:
 - FbDaliMemoryBank
 - FbDaliSendFadeRate

- FbDaliSendFadeTime
- FbDaliStoreActualValueAsScene
- FbDaliShowActualValue
- FbDaliSwitchPowerSupply
- FbDaliRestoreLastDimmValue

26.06.2014 DALI 647 PFC 02.lib (V2.0)

- Special version of DALI_647_02.lib for the PFC200 controller.

26.06.2014 DALI 647 SensorType1 02.lib (V2.0)

- The library replaces DALI_647_SensorCoupler_01.lib

26.06.2014 DALI 647 SensorType2 02.lib (V2.0)

- The library replaces DALI_647_Msensor_01.lib

26.06.2014 DALI 647 ColourControl 02.lib (V2.0)

- New library to control DALI Device Type 8 luminaires

06.05.2014 MpBus 02.lib (V2.6)

FbMpBusVAV: Changed value range of input rMaxAirVolume

05.05.2014 EnOcean 05.lib (V5.3)

- Visualization property of “Config_Thermokon_STC_VISU_PH” is set to “Visualization without master layout”.
- Output rTemperature of the following FBs are initialized with default value 20 i.e. 20°C.
 - FfbA502xx_TemperatureSensor
 - FbA510xx_RoomOperatingPanel
 - FbA52001_BatteryPoweredActuator
- Error in data decoding in the following function blocks are fixed.
 - FbA51303_DateExchange
 - FbA51304_TimeAndDayExchange

- The function block FbA504xx_TemperatureHumiditySensorSupport now support Eltako FAFT60 & FIFT63AP (A5-04-02/ 07-04-02.). This profile is NOT according to EEP2.1 and EEP2.6 specifications

14.03.2014 DALI 647 01.lib (V1.4)

- At each function block the Input “bModule_753_647” is limited between 1 and MaxModules.
- The scene number of the FbSceneConfig is limited between 0 and 15.

14.03.2014 Building HVAC 03.lib (V3.3)

- Bugfix in the calculation of the operating minutes of the FbFan_1Level
- The FbCalculatedSupplyTemperature starts always with a reference value inside the defined limits.

19.02.2014 Building HVAC 03.lib (V3.2)

- New export file Building_HVAC_03_x.exp with additional elements.
- Bugfix: FbRotaryHeatExchanger didn't enable “xRotaryHeatExchanger” during self cleaning.

14.01.2014 Building HVAC 03.lib (V3.1)

- New folder structure in the export file Building_HVAC_03_x.exp
- Bugfix: FbStartStopOptimization has generated an error message at the PFC 200.
- Modification at the PIDController:
The P-part will be deactivated, when the limit is reached and the actual level deviates more than 5 % from the reference value.
- Modification at the FbDHWPreparation:
Supply temperature alarm doesn't switch off the pump

14.01.2014 DALI 647 01.lib (V.1.3)

- The FbDaliLatchingRelay and the FbDaliSwitchOnOff use now the OFF Command (without Fade Time).
- The FbDaliDimmSingleButton and the FbDaliDimmDoubleButton use now the DAPC 0 % (with Fade Time).
- Bugfix: FbSceneConfig generates an Access violation at the PFC 200.

02.12.2013 MpBus 02.lib (V.2.5)

- FbMpBusEnergyValve: The block will send write command when there is value change on input “*bSetOverride*” and “*rSetRelativeSetpoint*”. When error occurs, the write will remain inactive since the block waits for change of value. Now the block will reactivate write command for *override* and *relative setpoint* whenever error occurs.
- Bug fix: The error handling of the FbMpBusEnergyValve and FbMpBusRoomSensor is changed. The function blocks will no longer locked when error occurs.
- Scaling of input *rSetRelativeSetpoint* of the FbMpBusEnergyValve is corrected

25.11.2013 BACnet 02.lib (V.2.2)

- New function blocks added:
 - FbBACnetInOutValue_AV: Function block for reading from /writing to BACnet Priority array of an analogue value object. The input is IN/OUT-Variable hence it is possible to change the value from the BACnet-Network and get an updated value in the IEC Application.
 - FbBACnetInOutValue_BV: Function block for reading from /writing to BACnet Priority array of a binary value object. The input is IN/OUT-Variable hence it is possible to change the value from the BACnet-Network and get an updated value in the IEC Application.
 - FbBACnetInOutValue_MV: Function block for reading from /writing to BACnet Priority array of a multistate value object. The input is IN/OUT-Variable hence it is possible to change the value from the BACnet-Network and get an updated value in the IEC Application.
- FbBACnetNative_BO and FbBACnetNative_AO: Internal code changes.
- New Version of BACNETOBJECTS.EXP available. In this version of the export data, the BACnet properties are resorted and a new category “Library Mandatory Properties” is introduced.

07.10.2013 MpBus 02.lib (V.2.3)

- New function blocks added:
 - FbMpBusRoomSensor: Function block for reading value from BELIMO Room combination sensor MS24-Rxx-MPX
 - FbMpBusEnergyValve: Reading and controlling BELIMO Energy Valve P6...EV-xxx
 - FbMpBusDamperAndValveActuator_MPL: reading and controlling BELIMO MPL Actuator.
 - FbMpBusUST5: Read and control UST5 signal transmitter
 - FbMpBusP_Sensor: Read and control P-Sensor
- Generic function blocks also added:
 - Function blocks for PEEK and POKE command.
 - Function blocks for getting and setting process data pool values.
 - Function block for setting configuration data pool values.

27.09.2013 EnOcean 05.lib (V5.2)

- Function block for HVAC Components (EEP A5-20-xx) only receive telegram with Data Byte 0 = 16#08. This is a bug and has been fixed.
- The bidirectional function block accepts any learn telegram regardless of its corresponding EEP. An EEP filter has been build inside the function block to fix this bug.
- The bidirectional function block answers with DB0.3 =TRUE (data telegram):

26.09.2013 BACnet 02.lib (V2.1)

- LOOP object can be saved now as RETAIN. This function only available for BACnet IP Controller 750-831.
- Export data *BACnetObjects.EXP* updated with new object supported by 750-831.

26.08.2013 DALI 647 01.lib (V1.2)

- Constant light control revised and updated.
- Feedback during the access of the WAGO-DALI-Configurator.
- Actual level will be calculated during the dimming.

12.08.2013 DMX 01.lib (V1.0)

- New library in order to control DMX-devices via serial interface module 750-652.

29.07.2013 Genibus 01.lib (V1.0)

- New library in order to control Grundfos pumps with GENIbus interface.

19.07.2013 Enocean 05.lib (V5.1)

- Timeout not able to reset with incoming telegram with EEP A5-02-xx and A5-10-xx. This issue is now solved.

08.07.2013 Building HVAC 03.lib (V3.0)

- Building_HVAC_03.lib substitutes Building_HVAC_02.lib
- The interface of the Sequence function blocks has been changed
- New FbAnalog3Point function block with dynamic set value calculation

01.07.2013 WeatherForecast HKW 01.lib (V1.0)

- New library in order to integrate the HKW weather forecast station WS-K xx Modbus.

25.06.2013 DALI 647 EmergencyLighting 01.lib (V1.1)

- Fb_SettingEmergencyLighting internal code's optimised. Functionality remains unchanged.

18.06.2013 DALI 647 01.lib (V1.1)

- A master block without the suffix _IPC added.

02.05.2013 BACnet 02.lib (V2.0)

- New library in order to manage data exchange between BACnet network and IEC61131 application program

02.05.2013 Building HVAC 02.lib (V2.1)

- Building_HVAC_02.lib substitutes Building_HVAC_01.lib
- Revised and extended version of the previous HVAC library

02.05.2013 Enocean 05.lib (V5.0)

- Enocean_05.lib substitutes Enocean_04.lib
- New concept of function blocks according to the EEP (Enocean Equipment Profile) standard

02.05.2013 Mbus 03.lib (V2.3)

- Mbus_03.lib substitutes Mbus_02.lib
- Mbus_03.lib substitutes Mbus_Special.lib
- Support of secondary addressing
- Add new function block **FbMbus_MultiTel** in order to provide an interface for multi-telegram-meters (e.g. ABB DAM13000)

02.05.2013 SMI 02.lib (V2.2)

- **FbSMI_MOTOR:** Improved time behaviour for movement to shadow position

02.05.2013 ThermokonWRF06 01.lib (V1.0)

- New library in order to integrate the Thermokon Room Operating Panel WRF06 via Modbus/RTU.

02.05.2013 ThermokonThanos 01.lib (V1.0)

- New library in order to integrate the Thermokon Room Operating Panel Thanos via Modbus/RTU.

12.02.2013 DMX StageProfi 02.lib (V2.1)

- Improved error handling when losing the TCP connection

01.02.2013 SMI 02.lib (V2.0)

- SMI_02.lib substitutes SMI_01.lib

20.11.2012 DALI 647 EmergencyLighting 01.lib (V1.0)

- New library for DALI Emergency Lighting (Device Type 1)

20.11.2012 DALI 647 SensorCoupler 01.lib (V1.0)

- DALI_647_SensorCoupler_01.lib substitutes the WagoLibDALI_SensorCoupler_01.lib

20.11.2012 DALI 647 Msensor 01.lib (V1.0)

- DALI_647_Msensor_01.lib substitutes the WagoLibDALI_Msensor_01.lib

20.11.2012 DALI 647 01.lib (V1.0)

- DALI_647_01.lib substitutes the WagoLibDALI_01.lib

09.10.2012 DMX StageProfi 02.lib (V2.0)

- DMX_Stage_Profi_02.lib substitutes the DMX_State_Profi_01.lib

28.09.2012 LON 01.lib (V1.0)

- New library for LON module 753-648

13.09.2012 MpBus 02.lib (V2.2)

- **FbMpBusVav:** Replaced command in order to write MIN/MAX values according to the new Belimo standard.

13.09.2012 WagoLibDALI SensorCoupler 01.lib (V1.0)

- New library for the DALI module 753-647
- This library supports the Sensor Coupler

13.09.2012 WagoLibDALI Msensor 01.lib (V1.0)

- New library for the DALI module 753-647
- This library supports the Msensor 2.0

13.09.2012 WagoLibDALI 01.lib (V1.1)

- Minor changes in FbDali_Command

22.08.2012 WagoLibDALI 01.lib (V1.0)

- New library for the DALI module 753-647

10.07.2012 Gebaeude allgemein.lib (V1.14)

- Add new module **FbSunblind_2**

22.05.2012 Mbus Special.lib (V1.4)

- New function blocks **FbMbus_Electricity_Sec**, **FbMbus_Heat_Sec**, **FbMbus_Water_Sec** and **FbMbus_Response_02_Sec** in order to support M-Bus secondary addressing

13.02.2012 ThebenKNX DALI 01.lib (V1.4)

- This version eliminates problems with the PLC_VISU visualisation which might occurred with the previous version.

17.10.2011 DALI 02.lib (V2.12)

- Extended functionality of the **FbDALI_ConstantLightControl**. Now it is possible to start the constant light control with a fix value.

13.09.2011 Scheduler 03.lib (V3.2)

- Fixed error in **FbTimetable**. Invalid access to an array index.

06.07.2011 Winsta BC 02.lib (V2.1)

- **Winsta_BC_02.lib** substitutes the **Winsta_BC_01.lib**
- This version supports new features of boxes with $SW \geq 02$.
- Add new module **FbWinsta_BC_Position**.

28.06.2011 DALI EmergencyLighting 01.lib (V1.2)

- New visualisation element and function block **FbConfigEmergencyLighting** for identification of the emergency lighting.
- The new function block can also readout the status of all emergency lightings on the DALI line.

16.05.2011 KNX Applications 02.lib (V2.3)

- Fixed error in **FbKNX_DALI_Dimm**. The feedback dim value was not displayed correctly.

30.03.2011 ElsnerModbusWeatherStation 01.lib (V1.0)

- New library for the Elsner Weatherstation P03/3 Modbus

09.03.2011 Mbus 02.lib (V2.1)

- Mbus_02.lib substitutes the Mbus.lib
- Improvement of **FbMbusDecode** in order to increase the number of data records to 20.
- Add new elements of the M-Bus VIFE-Extension table

09.03.2011 Mbus Special.lib (V1.3)

- Add module **FbMbus_Response_02**

09.03.2011 Scheduler 03.lib (V3.1)

- Add module **FbClock**
- Fixed error in **FbSetScheduleValue**. The output values were not set correctly.

02.03.2011 DALI 02.lib (V2.11)

- This version prevents, that during the initialization of the Joblist a Job will be written into the Joblist.

11.02.2011 DALI 02.lib (V2.10)

- This version eliminates an error if the Joblist for the first DALI line is not present. In this case the message “Please Wait” will always be displayed for the other DALI lines.

26.01.2011 DALI 02.lib (V2.9)

- New function block **FbDALI_M_Sensor**
- New function block **FbDALI_SwitchRawValue**.
- Performance of the **FbDALI_Joblist** optimized
- DALI Configuration tool has now the possibility to choose between ul values in percent or DALI ul values.
- New feature “Reset Joblist” implemented

26.01.2011 PowerMeasurement 03.lib (V3.2)

- New global variable in order to set a filter for unused inputs if one phase measurement is used.

26.01.2011 Scheduler_03.lib (V3.0)

- Scheduler_03.lib substitutes the Scheduler_02.lib
- Scheduler_03.lib belongs to an external open source visualisation library (Visu_Scheduler_03_x.lib).
- Add new module **FbTimetable**. This module contains the time switching function for an occupancy schedule (timetable) of a room.
- Add new module **FbTime_RTC_Modul**. This function block determines the date and time from the RTC module 750-640 and makes the data available
- Add new module **FbSetScheduleValue**
- **FbScheduler**: New output typScheduleStatus
- **FbScheduler**: New feature for public holiday time switching program.

18.01.2011 EnOcean_RS485_03.lib (V3.0)

- EnOcean_RS485_03.lib substitutes the EnOcean_RS485_02.lib
- New function blocks to support the bidirectional EnOcean Gateway STC65-RS485 EVC from Thermokon.
- Add new module **Fb_MD15_FtL_HE_EVC** for Kieback&Peter actuator.

26.11.2010 PowerMeasurement_03.lib (V3.1)

- This version eliminates the problem with the calculation of the energy consumption at a 16 Bit controller.

30.09.2010 RomotecModbusRTU_02.lib (V2.0)

- RomotecModbusRTU_02.lib substitutes the RomotecModbusRTU.lib
- **FbRomotecMaster**: New input to adjust COM_FLOW_CONTROL

29.09.2010 SMI_01.lib (V1.2)

- New placeholder for SMI visualisation in order to be applicable as web-visualisation.
- **FbAddressing**: The new version of this function block eliminates a problem of extended addressing which might occurred with the previous version.

23.08.2010 KNX Applications 02.lib (V2.2)

- Add new module **FbKNX_DALI_Dimm**
- Add new module **FbKNX_Clock**

26.07.2010 Scheduler 02.lib (V2.3)

- Changed licensing. The new version is applicable for WAGO PERSPECTO Control Panels

26.07.2010 Building HVAC 01.lib (V2.14)

- Changed licensing. The new version is applicable for WAGO PERSPECTO Control Panels

26.07.2010 Gebaeude allgemein.lib (V1.13)

- Changed licensing. The new version is applicable for WAGO PERSPECTO Control Panels

31.05.2010 Winsta BC 01.lib (V1.0)

- New library for the WINSTA Sunblind box 770-629/130-000

31.05.2010 ThebenKNX DALI 01.lib (V1.3)

- This version eliminates an initialisation problem, which might occurred with the previous version.

31.05.2010 SMI 01.lib (V1.1)

- **FbSMI_MOTOR:** New switch over delay from safety position to shadow position.
- **FbSMI_MOTOR:** Reduced polling rate of position when the motor moves to safety position.

10.05.2010 PowerMeasurement 03.lib (V3.0)

- PowerMeasurement_03.lib substitute the PowerMeasurement_02.lib
- 32-Bit value for Energy consumption with a fixed scaling factor (Wh)
- Current transformer ratio per phase

03.05.2010 DALI 02.lib (V2.8)

- **FbDALI_ConstantLightControl** periodic refresh of dimmsignal when the constant light control is enabled
- **FbDALI_ConstantLightControl** reduced switch on delay time if presence and actual value becomes smaller than the set point value

27.04.2010 SMI 01.lib (V1.0)

- New library for blind control application

26.04.2010 Building HVAC 01.lib (V2.13)

- Improved code for **Fb_Fan_FC**

25.03.2010 DaylightSaving.lib (V1.2)

- Changed code in order to support BACnet time synchronisation

18.02.2010 ThebenKNX DALI 01.lib (V1.1)

- New library in order to integrate the Theben compact office EIB ultisensory via KNX module 753-646 for a DALI constant light control.

29.01.2010 EnOcean Omnio 01.lib (V1.2)

- Changed data acknowledgement

29.01.2010 DALI 02.lib (V2.7)

- Changed range for parameter FadeTime in **FbDALI_ConfigDevice**
- Several outputs “xReady” have got a changed behaviour

29.01.2010 MpBus 02.lib (V2.1)

- Add new module **FbMpBusTHC24**

29.01.2010 Building HVAC 01.lib V(2.12)

- Improved code for **Fb_Control_PID_Adv**

29.01.2010 EnOcean 04.lib (V4.4)

- Add new module **FbSR_MDS_V2** for the ceiling multi sensors with changed output form

03.11.2009 DaylightSaving.lib (V1.1)

- Major change regarding write access to firmware register.
Please replace the previous version

2 Library version

Library:	Version:	Further Information and examples:
BACnet_01_easy.lib	1.0	Bibliothek Library
BACnet_02.lib	2.5	Bibliothek Library Anwendungshinweis Application Note
Building_HVAC_03.lib	3.10	Bibliothek Library Anwendungshinweis Application Note
ColourConverter_01.lib	1.2	Bibliothek Library
DaylightSaving.lib	1.2	Anwendungshinweis Application Note
DALI_647_04.lib / DALI_647_PFC_04.lib	4.1	Bibliothek Library
DALI_647_SpecialSensor_02.lib	2.0	Bibliothek Library
DecodeFlexweather_01.lib	1.0	Anwendungshinweis
DMX_02.lib	2.0	Bibliothek Library Anwendungshinweis Application Note
DMXStageProfi_02.lib	2.1	Anwendungshinweis Application Note
EnOcean_06.lib	6.8	Bibliothek
ElsnerModbusWeather Station_01.lib	1.0	Anwendungshinweis Application Note
Genibus_01.lib	1.3	Anwendungshinweis Application Note
KNX_IP_750_889_02.lib	2.0	Bibliothek Library
KNX_IP_750_849_01.lib	1.0	Bibliothek Library
KNX_02.lib	2.8	Bibliothek Library Anwendungshinweis Application Note
KNX_Standard.lib	1.7	Bibliothek Library

LON_01.lib	1.0	Bibliothek	
MBUS_649_01.lib	1.5	Bibliothek Library	Anwendungshinweis Application Note
MpBus_03.lib	3.2	Bibliothek Library	Anwendungshinweis Application Note
PowerMeasurement_03.lib	3.2	Bibliothek Library	Anwendungshinweis Application Note
robutecheasy_02.lib	2.0	Bibliothek	
RomutecModbusRTU_02.lib	2.2	Bibliothek	
Scheduler_03.lib	3.4	Bibliothek Library	Anwendungshinweis Application Note
SchuecoTipTronic.lib	1.0	Bibliothek	
SMI_02.lib	2.3	Bibliothek Library	Anwendungshinweis Application Note
SMI_163x_01.lib	1.0	Bibliothek Library	Anwendungshinweis Application Note
ThermokonWRF08.lib	1.1	Bibliothek Library	Anwendungshinweis Application Note
ThebenKNX_DALI_02.lib	2.3		Anwendungshinweis Application Note
ThermokonWRF06_01.lib	1.0	Bibliothek Library	Anwendungshinweis Application Note
ThermokonThanos_01.lib	1.0	Bibliothek Library	Anwendungshinweis Application Note
ThiesModbusWeatherSensors_01.lib	1.0	Bibliothek Library	Anwendungshinweis Application Note
WagoBuilding_01.lib	1.17	Bibliothek Library	Anwendungshinweis Application Note
Winsta_BC_02.lib	2.1	Bibliothek Library	Anwendungshinweis Application Note
WeatherForecast_HKW_01.lib	1.1		Anwendungshinweis

3 Building libraries compatibility list

	750-																		
Library	-806	-819	-829	-830	-831	-833	-837	-838	-841	-842	-843	-849	-871	-872	-873	-880	-881	-884	-889
BACnet_01_easy.lib			x	x	x														
BACnet_02.lib			x	x ₅	x														
Building_Common.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Builing_HVAC_03.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ColourConverter_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DALI_647_04.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
DALI_647_PFC_04.lib																			
DALI_647_SpecialSensor_02.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
DaylightSaving.lib			x	x	x				x			x	x	x	x	x	x	x	x
DecodeFlexWeather_01.lib			x	x	x				x			x	x	x	x	x	x	x	x
DMX_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DMX_StageProfi_02.lib			x	x	x				x			x	x	x	x	x	x	x	x
ElsnerModbusWeatherStation_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Enocean_06.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
Gebaeude_allgemein.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Genibus_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
KNX_IP_750_889_02.lib																			x
KNX_IP_750_849_01.lib												x							
KNX_Standard.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
KNX_02.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
LON_01.lib	x ₄	x ₄	x	x	x	x	x ₄	x ₄	x	x ₄		x	x	x	x	x	x	x	x
MBUS_649_01.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
MpBus_03.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
PowerMeasurement_03.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

34 • Building libraries compatibility list

750-																			
Library	-806	-819	-829	-830	-831	-833	-837	-838	-841	-842	-843	-849	-871	-872	-873	-880	-881	-884	-889
Robutecheasy_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RomutecModbusRTU_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SMI_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SMI_163x_01.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
Scheduler_03.lib	O ₂	O ₂	x	x	x	O ₂	O ₂	O ₂	x	O ₂	O ₂	x	x	x	x	x	x	x	x
SchuecoTipTroinic.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThermokonWRF06_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThermokonWRF08.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThermokonThanos_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThebenKNX_DALI_02.lib			(07) ₁		(07) ₁											(07) ₁	(07) ₁	(07) ₁	(07) ₁
ThiesModbusWeatherSensors_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WagoBuilding_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Winsta_BC_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WeatherForecast_HKW_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

¹ Valid from FW ()

² FbSaveVariable not supported

³ Special communication module applicable for IPC

⁴ restricted-use

⁵ FW04 required. FbRetain_LOOP not supported.

750-					758-
Library	-8202	-8203	-8204	-8206	-874
BACnet_01_easy.lib					
BACnet_02.lib					
Building_Common.lib	x	x	x	x	x
Builing_HVAC_03.lib	x	x	x	x	x
ColourConverter_01.lib	x	x	x	x	x
DALI_647_04.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
DALI_647_PFC_04.lib	x	x	x	x	
DALI_647_SpecialSensor_02.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
DaylightSaving.lib					
DecodeFlexWeather_01.lib	x	x	x	x	x
DMX_02.lib	x	x	x	x	x
DMX_StageProfi_02.lib	x	x	x	x	x
ElsnerModbusWeatherStation_01.lib	x	x	x	x	x
Enocean_06.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
Gebaeude_allgemein.lib	x	x	x	x	x
Genibus_01.lib	x	x	x	x	x
KNX_IP_750_889_02.lib					
KNX_IP_750_849_01.lib					
KNX_Standard.lib	X ₃	X ₃	X ₃	X ₃	X ₃
KNX_02.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
LON_01.lib	x	x	x	x	x
MBUS_649_01.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
MpBus_03.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁

Library	750-				758-
	-8202	-8203	-8204	-8206	-874
PowerMeasurement_03.lib	X ₃	X ₃	X ₃	X ₃	X ₃
Robutecheasy_02.lib	X	X	X	X	X
RomotecModbusRTU_02.lib	X	X	X	X	X
SMI_02.lib	X	X	X	X	X
SMI_163x_01.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
Scheduler_03.lib	X	X	X	X	X
SchuecoTipTroinic.lib	X	X	X	X	X
ThermokonWRF06_01.lib	X	X	X	X	X
ThermokonWRF08.lib	X	X	X	X	X
ThermokonThanos_01.lib	X	X	X	X	X
ThebenKNX_DALI_02.lib	(03) ₁	(03) ₁	(03) ₁	(03) ₁	(09) ₁
ThiesModbusWeatherSensors_01.lib	X	X	X	X	X
WagoBuilding_01.lib	X	X	X	X	X
Winsta_BC_02.lib	X	X	X	X	X
WeatherForecast_HKW_01.lib	X	X	X	X	X

¹ Valid from FW ()

² FbSaveVariable not supported

³ Special communication module applicable for IPC

⁴ restricted-use

⁵ FW04 required. FbRetain_LOOP not supported.

762-					
Library	-3035	-3057	-3104	-3121	-3150
BACnet_01_easy.lib					
BACnet_02.lib					
Building_Common.lib	x	x	x	x	x
Builing_HVAC_02.lib	x	x	x	x	x
ColourConverter_01.lib					
DALI_647_04.lib					
DALI_647_PFC_04.lib					
DALI_647_SpecialSensor_02.lib					
DaylightSaving.lib					
DecodeFlexWeather_01.lib					
DMX_02.lib					
DMX_StageProfi_02.lib					
ElsnerModbusWeatherStation_01.lib					
Enocean_06.lib					
Gebaeude_allgemein.lib	x	x	x	x	x
KNX_IP_750_889_02.lib					
KNX_IP_750_849_01.lib					
KNX_Standard.lib					
KNX_02.lib					
LON_01.lib					
MBUS_649_01.lib					
MpBus_03.lib					
PowerMeasurement_03.lib					
Robutecheasy_02.lib					
RomutecModbusRTU_02.lib					

762-					
Library	-3035	-3057	-3104	-3121	-3150
SMI_02.lib					
SMI_163x_01.lib					
Scheduler_03.lib	x ₄	x ₄	x ₄	x ₄	x ₄
SchuecoTipTroinic.lib					
ThermokonWRF06_01.lib					
ThermokonWRF08.lib					
ThermokonThanos_01.lib					
ThebenKNX_DALI_01.lib					
ThiesModbusWeatherSensors_01.lib					
WagoBuilding_01.lib	x	x	x	x	x
Winsta_BC_02.lib					
WeatherForecast_HKW_01.lib					

<i>KNX libraries compatibility</i>					
<i>Controller</i>	<i>OLD</i> (no fixed memory addressing possible)			<i>NEW</i> (fixed memory addressing possible)	
	<i>KNX_Application_02.lib</i>	<i>KNX_Standard.lib</i>	<i>KNX_IP_750_849_01.lib</i>	<i>KNX_IP_750_889_02.lib</i>	<i>KNX_02.lib</i>
750-88x (FW≥07)	(x)	(x)			x
750-88x (FW<07)	x	x			
750-830	x	x			
750-831 (FW≥07)	(x)	(x)			x
750-831 (FW<07)	x	x			
750-849	x	x	x		
750-889	(x)	(x)		x	x
750-820x (FW≥03)	(x)	(x)			x
750-820x (FW<03)	x	x			
750-84x	x	x			
750-87x (FW≥09)	(x)	(x)			x
750-87x (FW<09)	x	x			
750-829 (FW≥07)	(x)	(x)			x
750-829 (FW<07)	x	x			

x – compatible

(x) – compatible but not recommended

Note: The compatibility of KNX libraries is independent of the 753-646 firmware version.

Note: The library *KNX_Application_02.lib* requires the library *KNX_Standard.lib* and is not applicable with *KNX_02.lib*.

WAGO Kontakttechnik GmbH & Co. KG
Postfach 2880D-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>

