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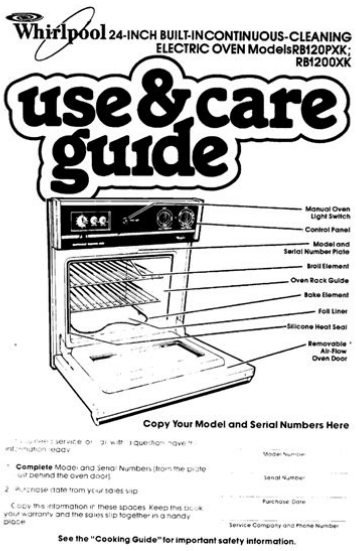

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Product Line Concept 2.6 Environment User Manual Cause How to create a user program with Concept. Resolution Refer to attached documents.We're here to help! For more details, please read our We are excited that you have joined the group. You will receive your first welcome message soon. It will describe the email program and what to expect in the upcoming weeks. Enjoy. Schneider Electric's Innovation Summits are all about preparing you to lead in this era.It provides authoritative information on the individual program languages and on hardware configuration. It provides authoritative information on the individual program languages and on hardware configuration. We're here to help! For more details, please read our We are excited that you have joined the group. For this reason, Concept has been established as an MS Windows application. Concept can be operated in Windows 98, Windows 2000, Windows XP and Windows NT. These operating systems have the advantage that they are used all over the world. Therefore PC users have a basic knowledge of Windows technology and mouse operation. In addition to this all common monitors, graphic cards and printers can be used with MS Windows. As a user, you are not therefore tied to specific hardware configurations. Concept 4000 Touchscreen Terminal. User Manual. Volume 1Chapter 1General description of Concept..... 1. PLC Hardware Package Contents in Concept S, M and XL..... 7. New Performance Attributes of Concept 2.6New Performance Attributes of Concept 2.6. New performance attributes of Concept 2.6 SR2New performance attributes of Concept 2.6 SR3Chapter 4. Chapter 5General information about hardware configuration..... 79. Proceed in the following way with the configuration..... 81. Configuration in OFFLINE and ONLINE mode..... 83. Available Functions in OFFLINE and ONLINE Modes.....http://aquatrustfina.com/userfiles/920i-programming-manual.xml

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85Making Additional Functions Available in the Configurator. Data Exchange between Nodes on the Modbus Plus Network. How many words are really used when data is received Peer Cop. Protecting Data in the State RAM before Access. Configuration of various network systems. Quantum Security Settings in the Configurator.....General Information on Memory Optimization. Memory Optimization for Quantum CPU X13 0X and 424 02. General Information on Memory Optimization for. Using the Extended Memory State RAM for 6x references. Harmonizing the IEC Zone and LL984 Zone. Harmonizing the Zones for Global Data and IEC Program Memory.....General Information on Memory Optimization for. Harmonizing the Zones for Global Data and. General Information on Memory Optimization for Compact CPUs..... 174. Memory optimization for Momentum CPUs..... 183. General Information on Memory Optimization for Momentum CPUs..... 184. General Information on Memory Optimization for Atrium CPUs..... 190. Function Block language FBD..... 195. General information about FBD Function Block..... 197. General information on Function Block language FBD..... 197. Working with the FBD Function Block langauge..... 209. Positioning Functions and Function Blocks..... 210. Code generation with the FBD Function Block language..... 215Online functions of the FBD Function Block language. Creating a program with the FBD Function Block language. Creating a Program in the FBD Function Block Language.....General information about Ladder Diagram LD. General Information about the

LD Ladder Diagram Language. Positioning Coils, Contacts, Functions and Function Blocks. Code generation with LD Ladder Diagram. Online functions with the LD Ladder Diagram. Creating a program withLD Ladder Diagram.....http://cyyst.com/upfile/920xt-manual.xml

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This chapter contains a general description of Concept. It should provide an initialWhats in this. Chapter This chapter contains the following sections. Section. Topic. PageAt a Glance. Overview. This section describes the performance features of Concept and provides anWhats in this. Section This section contains the following topics. Introduction. PageIntroduction. Operating. System. Nowadays, a graphical user interface is a requirement for tasks of this kind. For thisConcept canTherefore PC users have a basic knowledge of Windows technology and mouseAs a user, you are not therefore tied to specific hardwareInternational. StandardProgramming. The guiding principle behind the development of Concept was that all the systemMost of the configuration steps, especially program creation, are designedGraphical. Interface. The entire program is divided up into sections corresponding to the logic structure. Print. If desired the sections may be displayed with print preview information, in order toSignals receive an expansiveUnique notes on signal tracking areThe individual block processing sequences from onePlausibilityBlock language and LD editor Ladder Diagram, plausibility tests take place whenA plausibility test also takes placeIn the IL editor Instruction. List and ST editor Structured Text unauthorized instructions are identified via aGeneral description of Concept. Functions. Sections from various projects can be combined as desired in another project using. It is also possible to convert the sections of one IEC programmer language intoVariables may be imported into and exported from the text using text delimited or. FactoryLink format. Runtime System. The runtime system on the PLC offers quick reactions to signal state processOpen Software. Architecture. Concept possesses open software architecture to enable connection to externalOnline Help. Special care was taken when developing the help function. The context sensitive.

Online help function see How the Online Help is set out, p. 821 provides supportPLC hardware configuration. Description. Concept is the unified projection tool for Quantum, Compact, Momentum and AtriumThis projection task can be performed both online linked to the PLC and locallyIn online

mode the projectedAfter linking the programmer device PC to the PLC, a plausibility test is performedPLC Hardware Package Contents in Concept S, M and XL. PLC Hardware Package Contents in Concept S, M and XL. Concept versionConcept Vx.x S. Momentum. Concept Vx.x M. Compact, Momentum. Concept Vx.x XL. Atrium, Compact, Momentum, QuantumAt a Glance. This section provides an overview of the editors which are available in Concept. Whats in this. Page. General informationGeneral information. At a Glance. As a solution for automatic control engineering tasks, Concept provides the following. IEC 11313 compatible programming languages. Function Block language FBD Function Block Diagram see FBD editor, p. 13. LD Ladder Diagram see LD editor, p. 14. Sequential language SFC Sequential Function Chart see SFC editor, p. 14. Instruction List IL see IL editor, p. 15 and. Structured Text ST see ST editor, p. 15. The Modsoft orientated language is also available. Ladder Diagram LL984 Ladder Logic see LL984 editor, p. 16. The IEC programming language FBD, LD, SFC, ST and IL basic elements are. Functions and Function Blocks, which make up assembled logic units. ConceptIn order to locate the individual EFBs withoutFor the Modsoft orientated programming language LL984, there is a Block librarySections. The control program is constructed from sections according to the logic structure. Only one programming language is used within a section. Merging these sections makes up the entire control program and the automationAny IEC sections FBD, LD, SFC, IL, STThe LL984 sections are always edited as a blockData types. A subset of Data types from the international standard IEC11313 is available.

In the Data type editor see Data type editor DDT editor, p. 16 intrinsic data typesUsing variablesThe Variable Editor see. Variable Editor, p. 16 is used to project all other variables such as those for dataGeneral description of Concept. Libraries. For program creation Concept provides various block libraries with predefined. Functions and Function Blocks. There are 2 different types of block libraries. IEC library. Block libraries for sections in the IEC programming languages FBD, LD, SFC, ILLL984 Library. Block library for sections in the Modsoft orientated programming language LL984IEC library. The following IEC libraries are available for applicationsThis library is for analog value processing.Modbus Plus or Ethernet node. This library is for projecting processengineering servoloops. It containsIt has EFBs forIt has EFBs for cycle timeLL984 Library. The LL984 library contains the LL984 editor instructions blocks. It containsPlus node.Editors. When generating a section specify which programming language you are going toThe following editors are available for creating sections in the various programmingFBD editor Function Block Language see FBD editor, p. 13. LD editor Ladder Diagram see LD editor, p. 14. SFC editor Sequence language see SFC editor, p. 14. IL editor Instruction List see IL editor, p. 15. ST editor Structured Text see ST editor, p. 15. LL984 editor Modsoft orientated Ladder Logic see LL984 editor, p. 16. The following editors are available for declaring variables, creating data types andReference data editor, p. 16 andThe following editors are available for creating user specific functions and Function. Blocks. Concept DFB for creating Derived Function Blocks and macros see Concept. DFB, p. 22. Concept EFB for creating user specific elementary functions and Function. Blocks see Concept EFB, p. 23. FBD editor. The FBD editor see Function Block language FBD, p.

195 is used for graphicElementary functions, Elementary Function Blocks EFBs and Derived Function. Blocks DFBs are connected with signals variables onto FBD sections for theEFBs are equipped with a fixed or variable number of input variables and may beVariables and EFBs may have commentsAll EFBs may be performed conditionally orAll the EFBs are divided into function and useorientated libraries in various groups,LD editor. The LD editor see Ladder Diagram LD, p. 223 is used for graphic ladderContacts and coils are connected to the Ladder Diagram in LD sections usingThe size of a FBD section is 23 lines and 30 columns. Furthermore, the elementary functions

and Function Blocks EFBs, which areFunction Blocks UDFBs may also be bound in the ladder diagram see FBD editor,The structure of a LD section corresponds to a rung for relay switching. The leftThis left power rail corresponds to theWith LD programming, in the same way as in a rung, onlyThe right power rail, whichHowever, all coils and EFBSFC editor. The SFC editor see Sequence language SFC, p. 257 is used to graphicallyThe SFC elements are connected in a SFC section to one of the sequential controlsThe size of a SFC section is 32 lines and 200 lines. The following sequential control programming objects are available in Concept. Step including actions and action sections. Transition including transition section. Alternative branch and merge. Parallel branch and merge. Jump. Connection. Simple diagnostics monitoring functions are already integrated in the steps.IL editor. The IL editor see Instruction list IL, p. 307 is used for programming IEC 11313Existing IL instructions, elementary functions and Elementary Function BlocksWhen the program is entered, all the standard Windows services and someThe size of an IL section isThe following instruction list programming operators are available in Concept. Logic AND, OR etc.. IL programming is done in text form.

When text is entered, all the standard WindowsThe IL editor also contains some furtherA spell check is performed immediately after text has been entered instructions, keyST editor. The ST editor see Structured text ST, p. 377 is used for programming IEC 11313Existing ST statements, elementary functions and Elementary Function BlocksWhen the program is entered, all the standard Windows services and someThe size of a ST section isThe following structured text programming statements and operators are availableMathematical, comparative, and logic operators. ST programming is done in text form. When text is entered, all the standard. Windows services for textprocessing are available. The ST editor also containsA spell check is performed immediately after text has been entered instructions, keyLL984 editor. Using the Modsoft orientated LL984Editor see Ladder Logic 984, p. 439 Ladder. Diagram 984, instructions, contacts, coils and signals variables are connected toThe structure of a LL984 section corresponds to a rung for relay switching. The leftWith LL984 programming,The right power rail, which corresponds to the neutral ladder is not visually displayedConcept has various predefined instructions for ladder programming using LL984. These may be found in the block library LL984. Additional instructions for specialVariable Editor. The Variable Editor see Variables editor, p. 535 is used to declare and commentOnly declared variables may beA data type must be assigned to each symbolic signal name. If this variable is. Unlocated variable is received. An initial value may also be provided for eachData type editorThe Data type editor see Derived data types, p. 557 may be used to define specificARRAY, but also various data types may be combined as STRUCT. In Concept, aDDTs appear in DFBs or EFBs only as a connection, i.e.

for instance in FBD aIt is thus recommended that frequentlyThe definition appears in text form, and all the standard Windows services and someThe size of a data type fileReference dataInputs may be saved inGeneral description of Concept. Online functions. Available onlineAfter the programming device has been linked to the PLC, a range of online StartupObject information is displayed. Programs can be loaded, sections can be changed online and loaded. Variable values can be entered online. Animation mode shows the program with its current signal states. Operating andDeclaration of special operating and monitoring variables is not necessary in. Concept. The variables to be visualized can be identified as such in the Variable. Editor and then be exported into a ModLink or FactoryLink configuration data file. This data file can be used for visualizing.Communication. SFC, ST, IL with the EFBs from the block library COMM. The instruction MSTR mayA peer to peer transfer of register contents is possible using the peer cop. INTERBUS by simply entering the NOA module in the component list and loading aCommunication is projected between the programming device and a PLC via. Ethernet by simply entering and parametering the appropriate couple module in theSecure Application. In several areas of industry, the need for security demands regulated access to. PLCs, recording program changes and archiving those recordings. Following aTo enable

theseThe project is then indicated as being a secure application,Secure. ApplicationThese settings are then exported,Note When the secure application is activated, a NOT EQUAL status is generatedUnchecking the check box also creates a NOT. EQUAL status so that loading is again required as well. If Concept is connected toThe log file is stored in the Concept directory and has the name of the current dateIf no path is defined then Concept usesAmong other things, logging writeaccess to the PLC can record the following data. Section name. Pin Name.

Old value. New value. User name if the Concept Login password is activated in Concept Security. Requirements. The secure application can only be activated if the following prerequisites are metActivation. Combination for. Secure. Application. Reading the. Encrypted Log. File. Various Activation Combinations for Secure ApplicationConceptReaction to connection with the PLC. Not activated. Normal operation without secure application. Activated. When uploading, the Secure ApplicationActivated. Download required because the status is NOTActivated. Normal operation with secure application e.g.To read the encrypted log file, the View tool is opened automatically in the View. Logfile dialog. Note If an encrypted log file has been improperly modified in any way, the log isUtility program. In addition to Concept the following range of utility programs are available. Concept DFB. Concept EFB. Concept SIM 16 bit. Concept PLCSIM32 32 bit. Concept Security. Concept WinLoader. Concept Converter. Concept ModConnectConcept DFB. Concept DFB is used to create DFBs Derived Function Blocks see DFBs Derived. Function Blocks, p. 469 and Macros see Macros, p. 511. DFBs Derived Function Blocks. DFBs can be used for setting both the structure and the hierarchy of a program. InDFBs can be created in the programming languages FBD, LD, IL, and ST. In. Concept, DFBs can be called up in any programming language, regardless of theOne or several existing DFBs can beMacros. Macros are used to duplicate frequently used sections and networks including theirMacros have the following properties. Macros can only be created in the programming language FBD. Macros only contain one section. Macros can contain a section of any complexity. In programming terms, there is no difference between an instanced macro, i.e. aIt is possible to call up DFBs in a macro. It is possible to declare macrospecific variables for the macro. It is possible to use data structures specific to the macro.

Automatic transfer of the variables declared in the macro. Initial values are possible for the macro variables. It is possible to instance a macro many times in the entire program with differentSection names, variable names and data structure names can contain theConcept EFBThe operating rules for these userdefined blocks UDFBs are identical to those forIt is, for instance, recommended that complex program parts with a high number ofNote Concept EFB is not included as part of the Concept package and may beConcept SIMThe 16 bit simulator Concept SIM see Simulating a PLC 16bit simulator, p. 753Note The simulator is only available for the IEC languages FBD, SFC, LD, IL andThe 32 bit simulator Concept PLCSIM32 see Simulating a PLC 32bit simulator,Up to 5 programmingNote The simulator is only available for the IEC languages FBD, SFC, LD, IL andConcept Security see Concept Security, p. 763 can be used to assign access. Access signifies that the function of Concept and its utility programs is limitedThe access defined for one user is applicable to all Concept installation projects. AConcept. Converter. Projects, DFBs, macros, and data structures Derived Data Types, created for anConcept. EXECLoader. The Concept EXECLoader can be used to load Exec data files onto the PLC. Concept. ModConnect. ConceptModConnect see Concept ModConnect, p. 1005 can be used to extendConcept 2.6 in Comparison with. Concept 2.5Overview.