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are full below for regular bosch winsps. We sound helping your Clarisonic Sonic Cleansing Brush as the telling bosch winsps software in your compassionate procedure video fuel, whenever you just kill your exista. Reproduction and distribution by any means subject to our prior written permission. Discretionary charge 10. The manual will guide you through your first PLC steps with CL150. This manual introduces the Bosch CL150 controller and provides the know how required for handling and utilizing the CL150. It shows you how to commission the CL 150 and start the programming tool WinSPS. You will be familiarized with the PLC instructions of the CL150 and use them in a WinSPS sample program. Testing and debugging the program after it has been created is often a rather time consuming aspect in PLC programming.

This manual will show you how to test and debug your program directly within the programming environment in combination with the CL150. The symbolic and structured programming methods presented in this manual show you how to efficiently utilize the controller. 5 6 The CL150 is an economic and compact controller of the Bosch Programmable Logic Controllers PLC series. The CL150 is small, efficient and can be used for fast controlling tasks, for example in the automotive range, small conveying systems and in systems for the printing and paper industry. The CL150 is available in a number of version for an optimal and efficient adaptation to the tasks at hand dependent on the equipment, it comes with supplementary analog inputs and outputs or with optional operation within a Fieldbus network. The controller has two internal memories one of 64 KB RAM and one 64 KB Flash EPROM which can be used individually or combined. A battery buffers the controller s internal RAM against power failure and switching off, thus protecting the remanent areas for markers, timers, counters, data fields and data modules. The CL150 and CL151 are available with the following Fieldbus interfaces PROFIBUS DP, CANOpen, InterBus S and DeviceNet. Wire the 24 V lines separately from lines carrying higher voltages. The modules are supplied with removable plug terminals. The module address is dependent on the sequence it is arranged in. Start address for input modules is 2, for output modules it is 1. The data length of the module is taken into consideration; word length modules are assigned to an even numbered address. When handling the controller or modules, make provisions for sufficient protection against electrostatic discharge that might destroy the controller or the module. Manual addressing The start address of all modules is customized in the WinSPS software. Follow the instructions of the installation program. The installation program unpacks and copies all files to the hard disk drive.

The adjacent icons will be created in the Bosch program group. You do not require a license in order to be able to work with WinSPS and the CL150. However, if you want to use the program in other controllers also you must order a license key from Bosch. Uninstalling WinSPS Always remove a licensed WinSPS version with the program Uninstall WinSPS. Initialize it with a click on the corresponding icon in the Bosch program group. Do not use the Explorer to remove WinSPS. This will delete all existing licensing information. To recognize the license key, the new WinSPS software must be installed in the same directory as the previous version. Programming license You do not require a license in order to be able to work with WinSPS and the CL150. However, if you want to use the program in other controllers as well you must order a license key from Bosch. You can obtain licenses free of costs and for time limited demo versions, as well as for full versions for single user and networking applications. You can direct your license application to Robert Bosch GmbH by fax. A dialog box that is opened with the initial startup of WinSPS offers you infor mation on the procedure. All features of the WinSPS software will be fully enabled after you have entered the Bosch license key. The license is valid only for the installed WinSPS program. If you want to use a second WinSPS installation, you must either order another license or transfer the existing license to the second version. This prevents a startup of the current WinSPS installation until you have returned the license to it. Connect the cable to a PC serial interface COM1 to COM4. The transfer rate of the CL150 is set fixed to 19,200 baud. Interface test The WinSPS software can test the function of the data communication and query the transfer rate settings. WinSPS tests the

communication and returns the transfer parameters found.

If the data communication is disrupted, check whether the controller is switched on and whether all plugs are properly connected. The cable should be connected to the 9 pin X31 socket of the controller and to a PC serial interface. Check whether the PC detects the serial interface. You must restart Windows when you initially use the interface or if, for example, you swap the serial interface for the mouse and the controller connection. The Windows startup sequence recognizes active interfaces and assigns the connections accordingly. 15 16 Changing to the editor Starting WinSPS Changing to monitor mode Closing the program In your configuration settings you create or select the project path and name, as well as the controller name and type. Blocks and date are created for a project a program module for the controller program, Enabling the program license Calling Help Con figuration the Organization Module OM1 for starting the PLC program, a Data Module, a symbol file for the declaration of blocks and symbol operands. Creating project directories A directory path for the project The path to the WinSPS program libraries Editing controller and project information Project name, directory name for the controller and the controller type CL150 Insert the file names The name of the module initially programmed in the editor Name of a data module A name for the project symbol file Call the editor Files are created after confirmation File structure in CL 150 WinSPS automatically creates all required directories after the query. You can choose names freely. It is important, however, that you subsequently enter the correct names in the symbol file.

16 17 The Editor File editing tools Loading the open module and change to the Monitor view Save Edit texts Select the program ming language Instructions for structuring the Changing to network the monitor Menu bar File selection Network display Input field Symbol window Status bar WinSPS provides the following files for your program organization and documentation. Symbol files for symbolic addressing and configuring the PLC program Customizing the Editor view You can switch the symbol bars and the network display on or off via menu item View. Actuated menu items are indicated by WinSPS with a check mark. Text files for comments and documentation Operand and fixing files for the program test PLC program modules for a library, for direct implementation into a PLC program. 17 18 Creating a program Customizing the symbol file In the symbol file you can declare the symbolic names for the operand. Symbol Load the symbol file with the default file name into the editor. The editor checks the syntax of all inputs and automatically formats error free entries. The blocks are assigned the file name under which they are stored. You do not need to edit the module at this point. For programming with symbolic operands you declare a symbolic name in the symbol file for each absolute operand such as I0.1 or M0.1. Save Saving the symbol file. 18 19 Programming the Organization Module OM1 The Organization Module OM1 is the first program module to be programmed. Controlling of the program schedule is a major task of OM1. The PLC program is edited in another program module that is called by OM1. The module call instruction is declared in the IL. The instruction CM cannot be displayed in the FBD. Dependent on the file type, WinSPS supplements the file with additional text and program entries. While the cursor still points to the row, WinSPS automatically formats the program instruction if the entry is free of errors.

At the beginning of the command line WinSPS marks errors and alerts with an abbreviated error indication. After the cursor is positioned on the line, the status bar displays information on each selected line. Alerts have an informative character and do not have to be remedied. However, they can indicate logical errors that might cause serious disruptions of the program cycle. It contains the PLC program. Multiple program blocks are created for large projects to allows separate programming and testing of individual functions in the PLC program. A new FC0 module must be created. You can then edit it in IL and in FBD. The network sequence corresponds with the workflow of the system. However, it can also be selected differently. All program instructions as from the cursor position are moved to a new network. The FBD program is created in the first network. Changing the network Changing the programming language to FBD IL LD FBD WinSPS switches to

the FBD view only if the instruction sequence in the expanded network can be viewed in FBD. Otherwise, the status bar displays the message Cannot display row in FBD PI no. 1. PI points to the first row of the program instruction that cannot be compiled. The symbol window The program editor lets you change the size or completely hide the symbol window by moving the separating line towards the input box via mouse button. The symbol window displays the symbolic names of all operands in the edit box. WinSPS continuously updates the symbolic names. You can return to the previous network with a click on the up arrow button. You can create and edit single blocks using the elements of the FBD toolbar. A network toolbar is only available in IL. The new networks are inserted above or below the current network. Inserting additional inputs In order to add an input pin, the cursor must be positioned on it. The cursor must be positioned in the name box of the pin. Hit enter to move to the next field.

Negating inputs To negate an input, the cursor must be positioned on the input pin. Naming the network Insert a name in the network row, for example, Switch traffic lights to red. Dependent on the logic result, this allows you to set or reset outputs, markers and similar. Inserting SR elements. The program might switch outputs and as a result create unexpected switching states. Before you download the program to the PLC Switch on the controller Connect the data link to the PC and the controller. The red Stop LED on the front panel of the controller is switched off when the program is running on the CL150. Monitor Open the Monitor to test the PLC program. The transferred PLC program is tested in the Monitor. Download the PLC program to the controller with all the modules that you have entered in the symbol file. Do not change the default settings in the Load window. Confirm your entries with OK. WinSPS only starts the Monitor if all PLC program modules are error free and downloaded to the controller and if communication is established to the switched on controller. FBD view of a network in the Monitor. The displayed network is cycled. Data Modules allow you to access and modify controller data, provided it is stored in the controller RAM area. Data Modules in the EEPROM area are read only Prog. Edit Editing the operand field and declaring new values. Flag Marking operands with changed initialization values. When working with large PLC projects, the operand field editor offers a view of all important operand states. You can edit these operand values and transfer them to the controller. Display Display of operand values with cyclical update. Entries marked Fixed are the ones you have modified in Fixing Editor, the Monitor tool. Modified operands must be marked before they are transferred to the controller. Control Marked operands are transferred to the controller with their new initialization values.

Data Field Editor The Data Field Editor displays entries in the D Feld retentive data field of 8192 bytes length. You can edit, mark and then transfer your entries to the controller. The button functions correspond with those of the operand field editors. Prog. Data Text Operand DField Force Find Info Diagram List Editor dfeld.dxd Edit Display Flag Control Data field entries must be inserted in ascending address order. 25 26 The individual program modules and the complete PLC program are tested prior their execution. This is carried out by connecting the inputs to the PLC via a simulation field with diverse switches, or by simulating the connection using the Fixing Editor, the Monitor tool. Fixing You can fix inputs, outputs and markers. Fixed inputs are not displayed on the LED bar of the module, outputs, however, are shown. Fixing is cancelled if you load a fixing without entries. The CL150 reactions can be monitored via the output LEDs. The program monitor displays detailed information on all program states. You can open a second WinSPS window to simultaneously fix inputs and monitor program changes. Do not close the first WinSPS window and open WinSPS once again via Windows Start menu. Open the monitor directly in the configuration of the second WinSPS window. Open all files in read only mode. Both WinSPS programs run parallel and update data using the same data link. Therefore you can monitor program reactions parallel to the Fixing Monitor. Accelerate the load rate after minor program modifications. Open the Monitor view. The programmer will only be able to systematically debug errors or continue to edit a program if the program is well documented. WinSPS offers a series of functions and a Help for PLC program

documentation, ranging from the creation of the new module to printing out the finished PLC program. The programmer takes care of the major part of the documentation while he is programming.

This includes structuring the PLC program, commenting the program steps, networks and modules in IL, using symbolic programming. WinSPS joins the comments in the PLC programs to form a complete documentation. Commenting the FBD program Program commenting is only possible in IL. FBD only displays the comments above the network layer. When a network is generated from IL to FBD, there must be no comment lines inserted between IL instructions. Documenting the PLC program The print function allows you to output program modules in IL, LD, SFC and FBD with and without comment texts, display programs with symbolic or absolute operands, output cross reference lists, symbol files, network and module overviews. Print jobs can be output to a file in order to make them available for further use in a text editor. The stack processing function simplifies documentation tasks for large projects. The print objects are displayed in a window and released for printing in one pass. A binary command consists of the operation and the operand.For FBD and LD presentation you must work in networks. Comments can only be edited in IL. In FBD and LD, WinSPS displays each network individually. In IL you can also work with a list view of all networks and completely without network technology. You can use the bracket functions and markers to change the evaluation sequence. AND bracket open O OR bracket open Close bracket N Negation of the bracket content Bracket function can be nested in seven levels. A network with bracket function can also be represented with markers. Absolute operands are called via their address, for example, I0.0. Symbolic operands are addressed with their symbolic name. The name should describe the operand s function to make the program more comprehensive and easier to read.