Bizerba bt service manual

I'm not robot
reCAPTCHA
Continue

Note to cookies: Bizerba wants to offer you the best service. To do this, we record information about your visit in the so-called cookies. Using this website, you agree to use cookies. For more information about using cookies on this site, please click More. At this point, you can object to using cookies and set up your browser accordingly. More information 1 Industrial Terminal NT User Manual NT - Hardware PC 2 Nur gültig für Deutschland: Only valid for Germany: Seulement valable pour l'allemagne: Sólo válido para Alemania: Solo valido per la Germania: Alle Rechte vorbehalten All rights reserved Tous droits réservés Reservados todos los derechos Tutti i diritti riservati 2003 Bizerba GmbH & Co. KG Balingen Bizerba GmbH & Co. KG, Postfach , Balingen/Germany, Tel. (07433)12-0, Fax 3a (07433) Internet: 3 Hauptverwaltung Balingen Postfach , Balingen Wilhelm-Kraut-Straße Balingen, Deutschland Declaration of type conformity We declare herewith that the type of the industrial PC Definition: Type: Industrial terminal NT complies with the current requirements of the following EC directives: EC Directive on electromagnetic compatibility EC Directive on electrical equipment designed for use within certain voltage limits 89/336/EEC 73/23/EEC Applied harmonized standards and technical specifications : EMC: DIN EN ; DEAN EN; NAMUR NE21; DEAN EN; DEAN EN; DIN EN Class A; Safety: DIN EN 60950; DIN EN Any modification of the aforementioned equipment without the prior permission of Bizerba will render this statement invalid. Date: 30. Januar 2003 Manufacturer's Signature: The name of the signatory: ppa. Dr. Wurster Managing Director Bizerba GmbH No Co.KG 4 5 NT User Guide LIST OF CONTENTS LIST OF CONTENTS PAGE OF CONTENT OF CONTENT GENERAL GUARANTEE Certification Plate of the Industrial Terminal NT Waste Recycling / Environmental Protection Summary description of the industrial components of PC Mechanical Construction Upper and Lower Housing Lower Part housing DESCRIPTION FINAL and CPU jumper and switches features with PCM-6890 B Intel Pentium III/Celeron 633MHz Settings and Jumper Features and Switches Infrared Touch Screen (IRT) TFT Display Hard Power Disk Pack Multi-I/O Settings and Plug Place Switches and Modules SIO and PC/104 extensions INTERFACES Keyboard / Mouse IP 65 keyboard hand scanner linked to keyboard and mouse connector Ethernet Serial interfaces Modem connection PC board SIO-TTY , 20 ma and cable data PC board SIO-RS 232 C and pc data cable board RS 422 and data cables Connection Scale External Scale, Bizerba BT or ST External Scale, Bizerba ITC-1 or ITC External Scale Accuracy, Bizerba GE or Sartorius External Scale Precision, Bizerba EL or ITC-R External Scale load scale receptor with IADC 6 LIST OF CONTENTS NT user Download the receptor with digital load cells Profibus interface Pc board analog output 0/4 to 20 ma and cable data Static inputs / exits PIO 8/ PIO 16/ SOFTWARE Operating System Drivers and Tools Directory Of the Hard Drive Structure for Windows NT Directory Of Hard Drive Structure for Windows Recovery CD TECHNICAL DATA Technical Data NT Technical Data NT PC Dimensions Design-Mounted Version Stand-Mounted Design Version with Keyboard Deposit Unit DEVICE CONFIGURATION GENERAL OVERVIEW Temperature and Relative Air Humidity Nutrition Installation provided by the customer's Power Technical Data Data and Control Cables Installation Measuring Cables Installation Data Cables Installing Control Cables for Static Entrances/Exit Requirements for the Design of External Air Control Units Convection Cleaning Terminals Load Receptor 7 NT User Guide GENERAL 1. GENERAL With the Industrial Terminal Bizerba NT you bought a very sophisticated device in the most advanced technology. To ensure an operational guarantee, you need to carefully read and understand the operating conditions (section 8) and this is the user's guide. The NT industrial terminal is a complete and IBM-compatible PC that is suitable for use as an operation terminal and control in an industrial atmosphere. By connecting peripherals, it can be expanded to a modular industrial system. The NT NT NT industrial terminal documentation documentation contains a CE declaration of compliance type, a description of PC equipment and peripheral components, operating system and driver, as well as technical data and operating conditions xx On CD and hard drive To expand the NT industrial terminal for weighing the NTscale terminal available the following documents: NTscale operating conditions CE contains declarations of compliance type, EC-type approval and testing certificates, operating functions, and technical data and operating conditions xx Guide to both the CD and hard drive NTscale operating and service functions Help file on cd and hard drive applications according to the Order Help File on CD and Hard Drive Explained Characters: Link to Further Explanations, Restrictions or Extensions. Important additional information for the proper operation or operation of the equipment. WARNING NOTE, which must be strictly observed. Help to correct violations, etc. 8 GENERAL NT User Guide 1.1. Guarantee installation, commissioning and coaching of operational personnel should be carried out only by qualified staff of our sales departments, after sales or authorized companies. We cannot accept any responsibility for the damage caused Non-compliance with our user's manual along with working conditions (section 8). Install by anyone other than Bizerba included or appointed representatives. - a faulty electrical installation of the user. - modification of the equipment in any case from its original form. Removal of check and protective signs. Inappropriate programming and exploitation. - Mishandling the touch screen (e.g. using sharp objects). Natural wear. Work done by anyone other than the representatives we have authorized, and especially the refusal to use genuine Bizerba parts or accessories. - Media/liquids that affect the following materials: Components Material Weighing Terminals Stainless Steel Steel Load Steel Receptor, Lacquered Steel Load Receptors, Galvanized Load Receptors stainless steel Br Sensors and sensors such as BB sensors such as BL Al Cu Mg 2 When changing equipment settings, always conduct a test run and have a test report printed. This avoids unnecessary errors. Make sure only trained personnel work and maintain equipment. Take care to train the staff and make sure they fully understand the operating instructions and process our equipment correctly. These instructions are subject to revision because further product development, experience and research may show whether it is necessary or desirable. The graphics appearing in these instructions may differ slightly from the model supplied by the specific rules of 9 NT User Manual GENERAL 1.2. NT certification meets EN requirements for radio interference suppression of radio frequency equipment. When connecting peripherals, it will be the user's responsibility to make sure that the complete equipment fully meets the requirements of the above standard. Electrical equipment is manufactured in accordance with the EN Identification Plate of the industrial terminal NT Identification labeling: - there is no identification plate. BISERBA - the name of the manufacturer NT - the designation of the type (main type) CE and the identification of CE. Nr. / No device No. NT Made in Germany - country produced 100V - 240V; 50/60 Hz 0.66 A - 0.30A - Electrical Identification Plate Design for the weighing of the NTscale terminal is shown in the manuals for operation xx in the chapter Waste Recycling/Environmental Protection Return and Recycling of Used Battery. It applies only to Germany. This equipment contains batteries that are subject to the rules governing the return and disposal of used batteries. These rules oblige you, as a user, to return such items to the manufacturer or distributor for recycling or recycling after their useful life has expired. Bizerba and their dealers, of course, are ready to return the old equipment no longer used. In this case, consult with the source from which such hardware was originally received by 10 GENERAL NT User Guide 1.5. A brief description of the industrial PC Industrial Terminal NT is The PC is designed for use as an operating and control terminal in industrial areas. Nt can be operated within the temperature range from 10 C to 40 C. It should, however, not be exposed to direct sunlight and do not work next to the heaters Components Industrial Terminal NT consists of the following components: Home board with processor and all the main components of the PC infrared touch screen LC TFT active color display Invertor for voltage illumination module Hard drive with vibration-wet bearing Pack Power Multi-I/O board Analog-digital converter Mechanical Construction Upper and Bottom housing Authenticity Certificate of the Windows Operating System, which is a sticker on the inside of the device with the bottom with product designation and the product of the key number Lower part of the housing Stand W. rotary handles for the LC-TFT color display for LC lighting for infrared touch screen Seal frame Upper body part 4 aitbs for bolted top and bottom of the dwelling using kit and seal drive Upper body part: Lower part of the housing: with power package, PC, ADC and peripheral components, all the basics and data connectors. The back side with a smooth cooling plate of aluminum, black anodized. For the installation of full NT housing, the sloping position can be corrected by the swivel handles provided by 12 GENERAL NT User Guide Lower Part Housing Part Power Cable 11 Peripheral Module PIO, 16 inputs and 16 outputs 2 Power Switch 12 PCI Profibus board 3 Mains filter 13 Hardlock in a separate design 4 Power Pack 14 Connector for Y-cable, Keyboard and Mouse 5 Cooling 15 Connector for Ethernet Vibration-Wet 16 7 Home Board with processor 17 8 Multi-I/O board 18 9 ADC - bus measuring module SIO 20 Measuring and data cables with M 16 cable data glands and control cables with M 20 cable gland 21 Certificate of Authenticity of the Windows operating system, which is a sticker on the inside of the device with product designation and product key number 13 NT User Guide TO COMPONENTS 2. DESCRIPTION OF COMPONENTS 2.1. The main processor with PCM-5896 Intel Tillamook 266 MHz CN9 CN8 J8 J8 J8 J8 J15 LED1 CN15 J5 J10 P I 1 D M 1 J13 CN1 S1 on the back of the J16 S3 J14 Jumper Connects J2 Clear CMOS CN1 Power connector J3 DOC address select CN2 PC/104 JX connector Soft Power Switch connector CN3 USB ports connector J5 COM4 RI contact voltage select CN5 5 5IDE drive connector J6 COM2 RS-222/485 select CN6 Front panel J7 LCD watch select CN7 IrDA connector J8 LCD driving voltage select CN8 ATX power connector J9 Reserve for use in the future (default: 1-2 CN9 display) Signal input connector J10 COM3 RI contact voltage select CN11 Keyboard and PS/2 mouse connector J11 COM2 RS-232/422/485 select CN12 VGA VGA Connector J12 Audio Output Select CN13 Audio Connector J13 Vio Processor Select CN14 Printer Port Connector J14 CN15 100Base-Tx Ethernet connector J15 Power select, ATX/non ATX CN16 Serial Port Connector J16 Level 2 cache select CN17 Floppy drive connector LED1 Ethernet Tx/Rx/Link LED connector S1 (2'6) Vcore processor select U23 DiskOnChip Nest S3 (3 CPU watch select PCI PCI S3 connector (4'6)/J14 DIMM1 RAM processor frequency connector J3 J2 CN CN CN2 CN2 CN7 J4 CN 10 CN 12 J11 2 CN 13 J11 J6 CN 14 CN CN 16 CN 14 DESCRIPTION COMPONENTS NT Custom settings and function jumpers and switches Protection J jumper / clear value switches / clear explanation CMOS-RAM J3 J10 J5 J6 Disable DC00 DC400 DC 800 - RI - 5V - 12V RI - 5V - 12V RS 232 - RS 422 RS Disk chip 2000 Memory Address HEX COM3 Select Voltage to apply to pin 9 D-Sub connect COM4 Select voltage, which will apply for the contact 9 D-Sub plug-in Select interface for COM2 J J7 J7 J7 J ASHF CLK CLK SLK V 3.3 V - Select Hour Signal Select LCD Voltage J12 Line of Speakers Out - Select Audio Output J13 3 3 3.3 V 2.5 V - only for Intel Tillamook Select processor voltage J16 Other Processors Intel Tillamook CPU Factory Settings Select L2 Cache 15 NT User Guide DESCRIPTION OF COMPONENTS S1 S3 Jumpers/Vcore Switches .8V.85V ,9V ,95V,0V,05V ,1V,2V,3V,4V ,5V,6V,7V,8V,9V, 0V.1V,2V,3V,4V,5V Value/Explanation Select Processor Voltage Vcore PCI Bus MHz 30 MHz 8 MHz 33.4 MHz and MHz 30 MHz , 30 MHz 33.3 MHz processor core frequency - MHz 30 MHz external processor clock (60-100 MHz) ,3 MHz processor frequency range (2'5.5X) J14 Tillamook No 2 4X No 3 3.5X No3 3X No 3 2.5X No 3 2X - Default Settings, Factory Settings Important: Incorrect Frequency Settings Can Destroy Processor 16 DESCRIPTION COMPONENTS NT Custom Processor with PCM-6890 B Intel Pentium III/Celeron 633MHz CN4 CN9 LED2 CN10 J J8 CN15 P C I 1 D I M M 1 J11 J12 J12 J11 U18 JP1 CN 12 CN 13 CN 14 CN 16 CN 17 J1 J1 J2 CN2 CN5 CN6 CN10 CN1 J4 CN7 CN8 J6 J711 Jumpers Connects J1 Clear CMOS CN1 Power Connector J2 Heat Sensor System CN2'5 PC/104 connector J3 COM4 RI contact voltage select CN3 USB ports connector J4 COM3 RI contact voltage select CN4 CD-ROM signal input connector J5 Audio output select CN6 IDE connector J6 J6 ATX connector soft power switch CN7 Front panel connector J7 COM2 RS-232/422/485 select CN8 IrDA connector J8 LCD watch select CN9 ATX power connector J9 LCD driving voltage select CN10 LCD display connector J10 COM2 RS-232/ 422/485 select keyboard CN11 and mouse connector PS/2 J11 CN12 VGA display connector J12 CN13 Audio connector J13 CN14 Printer port connector CN15 100Base-Tx Ethernet connector CN16 Serial ports connector SW1 DOC address select drive connector CN17 Floppy (2'3') U18 DiskOnChip LED2 Ethernet LED connector JP1 MIC_Amp PCI PCI DIMM1 RAM connector 17 NT User Guide DESCRIPTION COMPONENTS Settings and switches and switches J J2 1 2 Jumpers/Switches Clear Value/Explanation Clear Ability to Connect CMOS-RAM for JP1 J3 J10 Temperature Sensors JP1 J3 J10 On Off 12V RS 232 - RS 422 RS Mic_Amp COM3 Select Voltage to apply to contact 9 D-Sub Select voltage, which will apply to contact 9 D-Sub plug selection for COM2 J J5 J8 J9 SW Line of Speaker out - ASHF CLK SHF CLK - V 3.3 V - disable DC002 OFF 3 ON 3 OFF 3 ON Select Audio Output Select Watch Signal Select LCD Voltage Drive on Chip 2000 Memory Address HEX SW 1 1 ON 4 ON 5 ON 6 ON, Factory Settings 18 DESCRIPTION COMPONENTS NT User Guide 2.2. Infrared Touch Screen (IRT) IRT Adjustment Access to the Touch Screen Adjustment Menu is provided through the control panel. The adjustment window occupies the entire screen, in the center of which appears a text assistant. The text should be touched with your finger. This switches to CRT adjustment mode, allowing you to adjust accurately. Switching is confirmed by an audible signal. In CRT adjustment mode, adjustment points are symbolized by crosshairs. The sensory area should be touched in the center of the crosshairs. The position of the finger when exiting the sensory area is used as a adjustment position. This subsequently allows for an accurate adjustment as to the screen size and position. The Help Text Adjustment Window closes after exiting the touch area at the second adjustment point and The CtNT software has been successfully installed. However, there is no immediate return to the Windows desktop, the main dialogue option of the CtNT Control Panel is open. Further driver options can be adjusted from there 19 NT User Guide DESCRIPTION COMPONENTS 2.3. The display uses the TFT display A 12.1 TFT. The TFT adapter is connected to the display. This implements the cessation of signals. In addition, a sensor is attached to it to measure the temperature on the display. The display cable is connected to the Multi-I/O board. If necessary, the backlight of the tube can be replaced during service. The Inverter for backlight is also connected to the Multi-I/O board. You can dim the backlight hard drive 2.5 hard drive, common in trading is used and connected to the processor via the IDE cable. This cable is provided by the output for the CD-ROM connection set. In the case of maintenance, the CD-ROM drive can be connected here the Power Pack Power Pack delivers voltage 5V, -5V, 12V, -12V. It is connected to both the processor and the Multi-I/O board to ensure that the connected interfaces and ADC are also supplied with power. The tension for CDROM and Floppy Drive comes from the Multi-I/O board 20 DESCRIPTION COMPONENTS NT User Guide 2.6. Multi-I/O board X7 X8 Calibration switch required X17 X14 X12 X25 S1 S2 X2 X2 X12 X12 X10 X10 X11 X11 X1 X5 X5 X1 X21 X27 X27 X27 X23 X23 X24 X25 X13 X3 on the back of X16 D16 ID module Plugs X1 PC/104 8-bit COM2 measuring the bus adapter and IADCs X2 PC/bit X17 COM3 directly from the X3 COM1-4 processor from the processor to the Multi I/O X18 COM3 channel module X4 TFT signals from the X19 Connector F processor. Measuring the boos and digital load cells X5 TFT signals to display X20 Digital potentiometer programming for LCD X6 Power Out No5V and No. 12V illumination X7 Power in 5V and No. 12V X21 Connector for synchronized bus ADC X8 connector for X22 touchscreen Not used, The X9 Connector temperature connector for cooling the X23 duct is not only used to test the FPGA X10 connector for the NEC X24 inverter Not using the X11 connector for the Sharp X25 Calibration jumper ADC and digital load cell 1) X) X The X27 Jumper X13 channel X27 Jumper must remain open directly from the CPU board 1) Required only in conjunction with the X15 COM2 Channel module hardware seal DIP switches module S1 Channel Type S2 I/O main address, 0200H 0340H Standardeinstellung: 0320H ID module D16 Module ID has an unambiguous serial number of equipment and uses EEPROM, in which activated software license numbers are retained. This module is provided with a socket and is to be plugged to the new hardware when the hardware is replaced, in order to ensure a reactivation of the licenses 21 NT User Manual DESCRIPTION OF COMPONENTS Settings and functions of jumpers and switches Jumpers/switches Without RS232 RS422 S1-8 S1-7 S1-6 S1-8 S1-7 S1-6 S1-8 S1-7 S1-6 ON ON ON ON ON OFF TTY Analog output S1-8 S1-7 S1-6 S1-8 S1-7 S1-6 ON OFF ON OFF ON ON Without RS232 RS422 S1-5 S1-4 S1-3 S1-5 S1-4 S1-3 S1-5 S1-4 S1-3 OFF OFF OFF ON ON ON ON OFF TTY Analog output S1-5 S1-4 S1-3 S1-5 S1-4 S1-3 ON OFF ON OFF ON ON Without RS232 RS422 S1-2 S1-1 S2-8 S1-2 S1-1 S2-8 S1-2 S1-1 S2-8 OFF OFF OFF ON ON ON ON OFF TTY Analog output S1-2 S1-1 S2-8 S1-2 S1-1 S2-8 ON OFF ON OFF ON ON A11 A10 A9 A8 A7 A6 A5 S2-7 S2-6 S2-5 S2-4 S2-3 S2-2 S2-1 COM3: COM2: COM1: Value/explanation of the module channel, Equipped channel module, equipped channel module, equipped Possible I/O Basic addresses 0200 HEX to HEX 0340 HEX HEX Switch position HEX ON - HEX OFF - HEX A0 HEX HEX HEX HEX Standard Setting X25 Jumper Calibration Jumper jumper not connected Weight adjustment and flag drop check possible. Jumper Connected Weight Adjustment and Change Check Values Disabled Plug Locations and Modules IADC, SIO and PC/104 Extensions Plugs X19 X19 X16 Bus Measurement COM2 Bus Measurement COM2 Appointment/Explanation Measurement of the Bus Adapter. The connector is for 3 load receptors with a total of 12 digital load cells. Measuring buses and IADC, a maximum of 4 IADCs can be stacked on top of each other. The X15 COM2 is only possible if the IADC is not equipped with components. SIO: TTY/RS232/RS422 or X13 COM1 SIO analogue output: TTY/RS232/RS422 X18 COM3 SIO analogue output: TTY/RS232/RS422 or X12 X13 X13 X14 COM1 COM2 COM3 SIO: RS232 directly from the main X1-X2 PC/104 PIO 16 16 Exits or PC/104 with 4 x COM or PC/104 with pcMCIA Power supply for a total of 3 load receptors Without control and signal cables, with galvanic separation with control and signal cables, without galvanic separation 22 INTERFACES NT User Manual 3. INTERFACES 3.1. The keyboard/mouse connection can be configured through a combined jack located outside the device. For official purposes, the short Y data cable comes with a device to which the keyboard and mouse can be connected through the PS/2 plugin. Round type plug 8-contact keyboard and mouse, Y-data cable function PC/2 plug-in Length Drawing No. Accessory keyboard mouse in the bag M-CLK 5-2, xx K-Data 1 -.xx GND 3 VCC 3 4 M-CLK - 5 M-Data - 1 Standard PS/2 foreski The app is only for data maintenance or for maintenance of the IP 65 keyboard If the keyboard is constantly required while working, the IP65 keyboard with a built-in touchpad and a suitable fork can be connected. Round type of 8-pin plug, 1 contact IP 65 keyboard with connected round type plug-in Design Design No. in m K-CLK Keyboard with 2, xx K-Data Integrated Touch Panel GER-Layout GND xx VCC US-Layout M-CLK Numeric field without XX M-Data Data Panel GER-Layout XX US-Model Product No Hand DCL 6065 hand scanners to connect the hand scanner to the keyboard connector with a round-the-round plug and RJ 45 round-length plug function in m Drawing No. The Ethernet Ethernet interface can also be accessed through a jack located outside the device. Because of the type of IP protection, this plug connection is not designed with the RJ45 as standard. The RJ45 plug is connected to the cable adapter supplied with the device. Ethernet Data Cable, 10 or 100 Mbits/Second Round Type Plug Function RJ 45 Length in m Figure No. Accessory plug bag 5-pin, Nest xx TD th TD - RD and RD Serial Interfaces With a total of 3 serial interfaces (Com 1, 2 and 3) available. The following destinations and combinations are possible: Serial interface COM 1 COM 2 COM 3 Appointment/combination directly from the processor board or with the channel module directly from the CPU board or with the Plug X19 X16 Bus Measurement COM2 Measuring Bus COM2 Appointment/Explanation Connector to connect a maximum of 3 load receptors with a total of 12 digital load cells With a maximum of 3 IADCs stacked on each other X15 COM2 Only possible if not measured bus is used. Channel module: or analog output X13 COM1 Channel module: TTY/RS232/RS422 or analog output X18 COM3 Channel module: TTY/RS232/RS422 or analogue output X12 COM1 Only possible if there is no measuring bus and no X13 COM2 other channel modules channel Use. The RS232 directly from the main side of the X14 COM3 processor powered a total of 3 load receptors without control and signal cables, with galvanic separation with control and signal cables, without the galvanic separation of 24 INTERFACES NT User Manual Modem Connection Main Processor Board offers 3 COM interfaces with control and signal cables at RS 232. Эти интерфейсы не гальванически разделены и подходят только для модемного соединения до 3 м. COM от основной доски процессора Plug на multi-i/O борту COM 1 X 12 COM 2 X 14 COM 3 X 17 Plug Micro Match, 10-контактный пин NT модемный кабель данных с разъемом D-Sub, 9 pol., pin-функция Color No. Длина в чертеже No Product No. CD RD TD DTR GND DSR RTS CTS RI WH BN GN YE GY PK BU RD BK Pc board SIO-TTY, 20 ma and data cables Plug X2 Type: TTY Drawing No.: xx Product No.: Settings Significance/explanation BR11 BR12 BR13 BR14 BR15 X X X=X X X=X X X Receiver passive, standard X=X X X X=X X X=X Receiver active BR7 : X'X Printer port with the status signal BR8: X'X Printer port with inverted DTR signal: BR10: X'X EPSON safety printer (from interface module 8143) Channel module Type Product No. TTY (20mA) RD - RD - TD and TD - Data cable with D-Sub plug, 25 pol., color contact function No. Length in m Figure No. Product Number GN YE WH BN contact acc connector. to order (maximum 300) acc. To order (maximum 300) 25 NT User Guide Interfaces PC board SIO-RS 232 C and data cables Plug X2 Type: RS ma Figure No: xx Product No: Type: Type: Type: RS ma Figure No: xx Version RS 232 with power source 5 V and 200 ma for direct connection of external devices such as manual scanners, will be introduced as standard at a later date. Settings Back side OF THE BR1: X'X EPSON Printer Front side OF BR2: X'X Non-Bizerba Printer Front side BR3: X'X Manual Reader Value / Channel Explanation Module Product Type No. RS232C (V 24) RD TD GND Color YE WH GN BN YE YE WH GN GN GN GN Data. Length number in m Figure No. Product Number from Contacts 25, Contact, Nest 9, Contact 9, Nest Function CD DSR CTS RTS RD TD GND No 5V DSR DTR CTS RD TD GND End Sleeves acc. to order (maximum 25) acc. to order (maximum 25) acc. to order (maximum 25) acc. Acc. Custom (maximum 25) Channel module No. RS232C (V 24) NT COM data cable with D-Sub plug, 9 pol., length of contact function number in m Drawing No. Product number from DSR DTR 6 acc contacts. to DCD 1 Order RTS 8 (maximum. 25) CTS BN 7 TD WH 3 RD YE 2 GND GN 26 INTERFACES NT Custom manual reader with integrated decoder Manual Reader Barcodat ST 6180 Product No Manual Reader inclusive 1.8 m data cable directly connected to the channel module SIO RS 232 NT using cable gland. NT electricity: 5V; max. 35 ma Hand scanner Hand scanner DW' 6065 Product No DW' Hand scanners including 2m cable SIO RS 232 (200 ma) NT module is directly connected to the channel using a cable gland. NT electricity: 5V; Max 200 ma p board RS 422 and data cable X2 RS 485 Plug X3 RS 422 Type RS 485/422 Figure No xx Product No/012 Settings Value/Explanation Front Side BR1 X'X Closed RS 422 Connector X3 BR2/BR3 X'X RD BR4/BR5: X X TD Standard End Line Resistor: Receiver Sender TD Inactive BR 6: X'X X (1 2 3) Feedback Sending Data Channel Product Type No. RS RD and RD TD - Color WH BN BN BN BN BN BN BN GN Function RD - RD - TD tD - Data Cable with D-Sub plug, 15 pol., pin No. to order (maximum 500) , bushing acc. To order (maximum. 500) Conductor end sleeves acc. 27 NT User Guide INTERFACES 3.4. Scale Connection External Scale, Bizerba BT or ST Channel Module Product Type No. Functi on RS RD - TD - TD - Data Cable with corks on both sides and the color of the cable gland No. Length number in m Figure No. Order GN 2 (maximum 500) YE External Scale, Bizerba ITC-1 or ITC-2 Channel Module Type RS232C (V 24) Product No Data Cable with D-Sub Plugin, 9 pol., Contact Color Function No. Length in M DSR DTR DTR RTS TDS TDDGBN ND BN WH GND Figure No. For order (maximum 25) External Scale Accuracy, Bizerba GE or Sartorius Channel Module Product Type No. RS232C (V 24) Data Cable with D-Sub plugin 25 pol., contact color function No. Length in drawing No. m RD TD TD WH GN acc. for order (maximum 25) External Precision Scale, Bizerba EL or ITC-R components and data cables are identical to ITC-1/2 components, External Precision Scale, bizerba HW/HWI Channel type module. RS232C (V24) RD TD GND Data Cable feature with round plug type, 3 pol., contact length number in m Figure No. Product Number Contacts 3, contact acc. To order (maximum 25) 28 INTERFACES NT User Guide NT with integrated NT scale terminal with built-in scale allows you to download receptors using digital load cells that will be directly connected. It also allows the connection of load receptors using analog load cells in combination with IADC in NT. To do this, the COM 2 interface works with the RS 485 measuring bus. NT offers a power source for a total of 3 NT load receptors using IADCs or digital load cells. Pc board measuring bus adapter X5 X5 X2 Flat type cable on X14 Multi-I/O board On location connecting X16 multi-I/O board X4 X2 X2 Flash programming Type: Measuring the bus adapter Flat type of cable Figure No.: xx xx Product No: 1) 1) PC board of the measuring bus adapter and flat type of cable contained in samples of different versions of NT. NT versions: with a measuring bus, with 1 or 2 or 3 IADCs. The measuring bus adapter synchronizes data time behavior from NT to IADCs or digital load cells. Adapter measuring board connected to the location of the X16 Multi-I/O board in the upper position. In addition, the flat cable provides all control cables and signal interface COM2 COM2 Receptor with IADC Pc board analog-digital converter ADC and X2 Pin side cables in place of X16 connection from Multi-I/O board X3 X2 X1 X5 SP S S R - free E E - free terminal block GN YE GY PK Free WH BN Free Green Yellow Yellow Grey Free White White Brown Free Type: ADC Figure No:xx Product No:1) 1) PC board measuring bus adapter and flat cable type are contained in samples of various NT versions. NT version: with measuring bus, with 1 or 2 or 3 IADCs 29 NT User Guide interfaces Settings Value /Explanation Plug X3: Pins 1-2 Bridge Normal and Adjustment Operation Plug X1: Pins 1-2 Bridge; Remaining pins not the Pina Bridge 3-4 bridge; Remaining pins not the Bridge Pins Bridge, the remaining contacts are not the bridge ADC address 1 ADC address 2 ADC address 3 Terminal No. on the pc board ADC Function No /-E -/ZE -/EP //R-/-SP q/-SP Conductor of color BN (brown) WH (white) PK (pink) GY (grey) GE (yellow) GN (green) Coupl(Coupl outlet. Connect with coupl. Measuring the length of the cable in m Figure No. to order (maximum 300) No 1, no 0, yes yes acc. To order (maximum 300) Load receptor with digital load cells load measuring bus RS485 allows a maximum of 3 scale with up to 4 digital load cells each to be connected. The X19 connector connector is located on the Multi- I/O board. Digital Load Cell Measuring Bus Cable WS 500/1500 RD/TD - RD/TD U_A GND_A WH BN GN YE White-Brown Green Yellow Type: WS 500 C3/500/500/1 C3/500/150 C3M/500/375 C7.5/500/375 Type: WS 1500 C3/150 0/750 C 3/1500/375 C3M/1500/750 C7.5/1500/750 Part No:xx xx xx Part No.: xx xx xx xx 1) Digital The WS 500/1500 load cells are contained in the scale 30 INTERFACES NT User Manual Cable Box Connection AK Digital Load Cells are connected to the RS 485 measuring bus in the cable connection of the load receptor box. Measuring bus cables Terminal NT W G G H N N E DLC 1 WS 500/1500 DLC 2 WS 500/1500 YE GN BN WH YE GN BN X1 X2 X5 X4 X4 X3 YE GN BN BN BN BN WH WH DLC 4 WS 500/1500 DLC 3 WS 500/1500 Type: AK Load Receptor 5 Figure No.: Product No: 4877 xxx AK Measurements Of Bus Settings / Explanation S1: Open Termination Lines Are Provided in DW (Digital Load Cell) and IADCs. X1: DW-1 X2: DW-2 X3: DW-3 X4: Dw-4 Arrangement and DW' Connector - DW - Digital Load Cellular Measuring Bus Data Cable RS 485 Feature Connection Explorer Color Measuring the Length of Bus Data Cable in m Figure No. to order (maximum 300) Terminal AK RD/TD - WH White RD/TD BN Brown NT: 4-pin connector U-A GN green AK: Conductor ends GND_A YE yellow AK AK, w. conductor ends at both ends acc. Bespoke (maximum 300) 31 NT User Guide interfaces Location of digital load cells in DW'1 DW-4 DW-4 AK DW-2 Measuring cable data The RS 485 to the NT terminal's Corner Adjustment Function generates the registration of digital load load cells based on the angular load sequence. Corner download should be as shown above. The load receptor configuration using digital load cells Terminal NT L T AK AK L L L L L Load receptor LA 1 Load receptor LA 2 Load receptor LA 3 Data transmission and power supply is carried out through a protected bus cable LiYCY 2 x 2 x 0.25 mm 2. To ensure the safe power supply of all connected digital loading cells, the efficient length of the bus cable branches is limited to a maximum of 90 m. Nmb. from Los Angeles No. 4 DW' Calculating the effective length of the bus line Possible realistic length of bus cable 1 LA 1: L L 90 m 90 m 2 LA 1: L L (L T x 2) 90 m 90 x m LA 2: Bus cable L T feeds digital load cell 2 load receptors. 3 LA 1: L L (L T x 3) 90 m 90 x - y m LA 2: LA 3: L L I (L T x 3) (L AK x 2) 90 m Автобусный кабель L T питает цифровые нагрузочные ячейки 3 рецепторов нагрузки и автобусный кабель L AK питает цифровые нагрузочные ячейки 2 рецепторов нагрузки 32 INTERFACES NT User Manual 3.5. The Profibus interface, using the Bizerba PCI Profibus board and the corresponding bus cables, can create a large-scale system network. Profibus EN Part 1, Active or Passive Station, FDL Layer 2 D-Sub 9-Contact Connector Channel 1 X5 X2 Channel 2 X6 X90_A/B PCI - 5 v 32 bit Type: Profibus PCI Figure No:xx Product No.: X2 Settings are not active - active value line/explanation, stopping Channel 1 X resistors Non-active line, terminating data cable resistors With D-Sub and AMP for bus distributor Type Product No. AMP 4-contact connector Color D-Sub 9-contact length in m Figure No. Profibus RS RD/TD - RD/TD GND No.5V WH BN GN YE Product No. 33 NT Custom Manual INTERFACES Stations on both ends of the bus line should be provided with the end of the bus line. This can be done on the PCI Profibus board in the NT. Product No. PC Distribution Box IP Bus Cable Screened LIYCY 2 x 2 x 0.25; Black PC board analog output 0/4 to 20 ma and data cable Plug X V Plug X2 0/4 20 ma BR6 on the back type: Analog Output Figure No.: xx Product No.: Rear Side Settings BR 6: X'X X (1 2 3) BR 6: X X'X (1 2 3) Value/Explanation Standard: 1st analog output 2nd output, output stacked channel cable data module with conductor end sleeve Product Type No. The length of the color function in m Figure No. WH Product (white) BN (brown) - Analog output 0/4-20 ma acc. 34 INTERFACES NT User Guide 3.7. Static PIO 8/8 X D-Sub 37 pol. Contact Plug x5: No Bridge Pin X5 X_A/B PCI - 5 V - 32 Bit Type: PIO 8 In 8 Out ADDI DATA APCI Product No.: Settings Technical Reference APCI-1516 ADDIPACK Software Value / Installation and Configuration according to documentation ADDI-DATA Channel Type PIO 8 B, 8 OUT Product No Control Cable with Conductor End Sleeve Bushing Color Номер продукта в m 1 WH On BN On 2 Accord GN On 4 заказать 4 YE Ha 6 (максимум 9 GR 24 V ext 300) 10 PK Ha 0 V ext 11 BU Off 0 12 RD Off 2 13 BK Off 4 14 VT Off 6 19 GYPK GYPK 20 RDBU At 1 21 WHGN On 3 22 BNGN On 5 23 WHYE On 7 28 YEBN 24 v ext 29 WHGY Off 0 v ext 30 GYBN OFF 1 31 WHPK Off 3 32 PKBN Off 5 33 WHBU Off 35 NT User Guide INTERFACES PI 16/16/16 X 1 X1: PC/104 8-bit X2: PC/ bit X2 X100 BR3 BR2 BR1 BR83 BR83 BR82 BR85 BR85 X4 X3 X3 and X4 F. Control Cable Type: PIO 16 In No 16 Out Drawing No:xx Product No:4640 Xxx Settings Value / BR Explanation : X X X100: External Supply Standard BR : X X X X100: Domestic deliveries BA2 BA1 BA1 BA0 I/O main address 0240 HEX BR1 BR2 BR2 BR3 to HEX Standard 0360 HEX HEX HEX HEX Connection/solder strap HEX closed 16OUT Product Control Cable Number with Conductor End Sleeves X: Pin Color Feature Length in m Figure No. Product No xxx ddd xxx acc. to 4640 xxx order (maximum 300) 36 SOFTWARE NT User Guide 4. SOFTWARE 4.1. The Windows Operating System Authenticity Certificate is a sticker on the inside of the device with product designation and the product key number of Windows NT 4.0 Service Pack 6 Windows 2000 Service Pack 2 only for the PCM B Intel Pentium III/Celeron 633MHz Windows XP Service Pack 1 only for the PCM B Intel Pentium III/Celeron 633MHz 4.2. Drivers and Tools Drivers and Tools Saved in Catalog C: BizERBA 37 NT User Guide SOFTWARE Directory Hard Drive Structure for Windows NT Processor Mit PCM-5896 Intel Tillamook 266 MHz Processor with PCM-6890 B Intel Pentium III/Celeron 63 Driver 63 Driver 63 Driver 63 Driver 63 Driver 63 Driver 63 Driver 63 Driver 63 Driver 63 MHz for Touch Screen Catalog The Structure of the Hard Drive for Windows 2000 Driver Only for the CPU with PCM-6890 B Intel Pentium III/Celeron 633MHz Driver for Touch Screen, especially for Windows 2000 Driver for Ethernet not used for Windows 2000, network card is automatically detected by the Driver to display, VGA the same driver is used for Windows 2000 and windows NT. Driver VGA_WinXP is used for windows XP 38 SOFTWARE NT User 4.3. Recovery CD During delivery, CD recovery contains a copy of the C. Additional data contained on CD Recovery: Acrobat Reader Drivers and THE PCM-5896 Intel Tillamook 266 MHz CP Processor and PCM-6890 B Intel Pentium III/Celeron 633MHz User Guide NT XX To restore the status provided at the time of delivery, CD CD SHOULD be connected to the NT. Restore the procedure to disable the NT from this and open later. Connect a CD ROM drive through a service cable installed to connect the data cable to the connective cable's distribution outlet to the hard drive (point 6, section). Connect the power cable to connect the X 6 to the Multi-I/O board (section 2.6.). Insert a CD ROM. Connect the NT to the main and turn it on. Install the download option in BIOS. Download from the CD first Select the DOS level. Download with COMPACT DOS level. Restore Harddrive with CD-Rom Run program. Recovery After recovery: Reboot the device: turn off the NT normally, disconnect from it. Also disable DISC from NT. Connect the NT to the seeded and turn it on. Reset the download option in BIOS. Download from HDD 39 NT User Guide TECHNICAL DATA 5. TECHNICAL DATA 5.1. NT Housing Technical Data: Stainless Steel Protection Type: Dust and Waterproof according to IP65 (DIN EN 60529) Seal Housing: - Rama: Plastic PA - Seals: Located Inside The House, PUR-Foam Cable Irons: Brass, Nickel Coated Button for Tilt Device: Plastic With Brass Nut and Drive (EPDM) Key Connections: 6%/-10%; Hz Energy Consumption: 230 v AC : 0.30 A 120 v AC : 0.66 Fuse Device: 230 V : UL T 3.15 Power Cable