



Toshiba OIS PLUS Series Manual

Operator interface stations

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

19
20
21
22
23
Table Of Contents
24

--

•

•

Bookmarks

--

Quick Links

[1 Key Features](#)

[2 Programming Software](#)

[3 General Specifications](#)

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[Table of Contents](#)

[Next Page](#)

1
2
3
4
5

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Summary of Contents for Toshiba OIS PLUS Series

[Page 1](#) Buy: www.ValinOnline.com | Phone 844-385-3099 | Email: CustomerService@valin.com...

[Page 2](#) OIS PLUS + OIS + Clip-on I/O The OIS PLUS Series touchscreens are updated versions of the operator interface stations OIS55 and OIS60. The PLUS versions contain PLC functionality and accommodate optional clip-on I/O modules (digital, analog & communication). OIS60 PLUS OIS55 PLUS 6"...

[Page 3](#) OIS MODELS Touchscreen--OIS PLUS OIS55 PLUS 3 ½" Color Touchscreen I/O Module Connection Clip-on I/O Module OIS45E PLUS 4.3" Color Touchscreen w/Ethernet 24 Vdc Power Connection 2 USB Ports Optional Battery 2 RS232/RS485 Com Ports Under Development OIS60 PLUSs 6" Color Touchscreen OIS70E PLUS 7"...

[Page 4](#) Large Touchscreen—OIS120A OIS120A 12" Color Touchscreen w/Ethernet A Large Display for Monitoring & Changing Data in Toshiba Control Devices □ Alarms & Trending □ Large Number of Special Objects □ Unlimited Screens (based on memory) □ 3 Communications Ports (1 Ethernet).

[Page 5](#) Modbus serial protocol. OIS20 PLUS--With Built-in I/O All the best features of past Toshiba PLCs are built into the OIS20 PLUS. Remember the EX20 (80s), M20 (90s) & T1-28 (00s), now there is the OIS20 PLUS (10s) 6--Relay Outputs...

[Page 6](#) OIS PLUS I/O Modules These modules clip onto the back of the OIS PLUS. All terminal strips are removable. OIS55 PLUS OIS45E PLUS OIS60 PLUS OIS70E PLUS Clips for Attaching to OIS PLUS Removable 24Vdc Power Terminal Strips Connection The following modules are available. Digital I/O TRPDIX1600 16 Inputs, 24 Vdc (sink/source).

[Page 7: Key Features](#)

Forward/Reverse, Frequency Output, etc. Operating Freq.,etc. RS485, Toshiba ASCII Protocol or Modbus Ethernet connection is also available (requires Ethernet switch for more than 1 ASD) Setup ASDs: Simple setup software allows each type of equipment to be defined, mapped, and tagged.

[Page 8: Graphic Symbols](#)

Graphic Symbols: The OIS PLUS (operator display) has a large selection of graphics for almost any industrial or process application. For the really special applications, user created bit maps can be imported into the OIS PLUS. Tanks, Pipes, & Valves Multi-State Indicators Normal Warning...

[Page 9: Data Logging](#)

Data Logging: In many testing procedures, production runs, or process steps, it is as import to log system parameters as it is to control the sequences. The larger OIS PLUS have the capability to log user defined data. This data can be exported to a *.csv file and saved on a USB memory drive.

[Page 10: Programming Software](#)

PROGRAMMING SOFTWARE The OIL-DS (Operator Interface & Logic Development Software) runs on any Toshiba notebook computer or PC compatible computer running MS Windows 2000/XP/Win7 (32/64 bit). It is used for developing both the display screens and the control program (using ladder logic and function blocks).

[Page 11](#) Programming Ladder Logic Blocks: Several different types of programming blocks are available for organizing the ladder program and for making it efficient. The Power Up block runs one time at startup. This block is used for variable initialization. 256 Main blocks are available for organizing the ladder program 256 Subroutine blocks are available for special calculations, updates, etc..

[Page 12](#) Webpage Server: These OIS PLUS displays have sufficient memory and an Ethernet port to support webpage servers: OIS120A OIS45E PLUS OIS70E PLUS The webpage is created in the OIL-DS software, then downloaded into the OIS PLUS along with a static IP address. After this is done, connect the OIS PLUS to an internet access point thru its Ethernet port.

[Page 13](#) ♦ Wash & Dry Control ♦ Compliance Monitoring ♦ Punch Press ♦ Pneumatic Control ♦ Alarm Systems ♦ Material Handling ♦ Conveyor Control ♦ Robotics Call Toshiba to discuss Special Applications Page 13 of 24 Buy: www.ValinOnline.com | Phone 844-385-3099 | Email: CustomerService@valin.com...

[Page 14: General Specifications](#)

SPECIFICATIONS General Specifications: Item Specification Power 24 Vdc, ±10% Bezel IP65 Operating Temperature: 0 ° to 50 ° C Storage Temperature: -20 ° to 80 ° C LCD Life 50,000 hrs

at 25° C Humidity: 10% to 90% (Non-Condensing) Atmosphere No corrosive gas, No flammable gas Cooling Natural air cooling...

[Page 15](#) OIS20 PLUS Item Specification Item Specification Display: 3.1" Multicolor Backlit LCD, 16 x4 12 in & 8 out Display Keys Six User-Defined Function Keys Memory-Total 512 Kb LEDs 1 Pwr, 6 User Defined, 12 Data Entry -Screen 84 Kb Com Ports-Serial: 1 RS232/RS485 -Data Log None...

[Page 16](#) OIS55 PLUS Item Specification Item Specification Display: 3.5" TFT 320 x 240 Graphical Color 3 Clip-on Modules Touchscreen Keys Six User-Defined Function Keys Memory-PLC 512 Kb LEDs 1 Power, 6 User Defined -Screen 6 Mb Com Ports-Serial: 1 RS232/RS485 -Data Log -Ethernet None PLC Steps...

[Page 17: Discrete I/O Modules](#)

OIS70E PLUS Item Specification Item Specification Display: 7" TFT 800 x 480 Graphical Color 5 Clip-on Modules Touchscreen Keys None Memory-PLC 128 Mb LEDs 1 Power -Screen 10 Mb Com Ports-Serial: 2 RS232/RS485 -Data Log -Ethernet 1 10/100 Mbps, Modbus TCP/IP PLC Steps 160 K -USB...

[Page 18](#) Specification TRPHIO0808N TRPHIO0808P TRPDIO0808N TRPDIO0808P Input Type DC input, DC input, DC input DC input Input Points 8 points (8p/com) 8 points (8p/com) 8 pts. (4 HSCs) 8 pts. (4 HSCs) Rated Input Voltage 24Vdc, ±10% 24Vdc, ±10% 24Vdc, ±10% 24Vdc, ±10% Rated Input Current Min.

[Page 19: Analog I/O Modules](#)

Analog I/O Modules Specification TRPAIO0400L TRPAIO0202L TRPRTX0402 Input Type Analog Analog Analog Input Points 4 Channels 2 Channels 4 Channels Input Signal 0-20 mA/±10 Vdc 0-20 mA/±10 Vdc mA, Vdc, TC, RTD Resolution 12 bit (1-4000) 12 bit (1-4000) 16 bit (1-65,000) □...

[Page 20](#) DIMENSIONS Dimensions: OIS10 PLUS/OIS12 OIS20 PLUS Cut out = 99 x 63 Cut out = 118.5 x 92.5 OIS55/OIS45E PLUS OIS40/42 PLUS 118.5 Cut out = 99 x 63 Cut out = 119 x 93 OIS PLUS I/O Modules FRONT VIEW LEFT SIDE VIEW All Dimensions in mm Page 20 of 24...

[Page 21](#) OIS60/OIS70E PLUS 183.8 Cut out = 184 x 131 OIS120A Cut out = 295 x 227 All Dimensions in mm. Page 21 of 24 Buy: www.ValinOnline.com | Phone 844-385-3099 | Email: CustomerService@valin.com...

[Page 22: Order Numbers](#)

OIL-DS setup software. OIS12 16 x 2 Text with Multicolor Backlit LCD, Same as OIS10 Plus but no I/O, used for T/C access, message display, data value change for all Toshiba PLCs, Integrated Controllers and ASDs, requires OIL-DS setup software. OIS20 PLUS 3.1"...

[Page 23](#) Cables EC-P-108-00 Connects OIS PLUS to S9/S11/VF-nC1/VF-nC3 TTL Port, smart cable, 2 m. EC-P-108A-00 Connects OIS PLUS to Toshiba G9/AS1 ASDs RS485 port, 4 wire, 2m. EC-P-019A-00 Connects OIS40R/OISPLUS/OIS120A/GWY to T1 Programming Port, 2 m. EC-P-019B-00 Connects OIS40R/OISPLUS/OIS120A/GWY to T2/T3/S2E/S2T Programming Port, 2 m.

This manual is also suitable for:

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