Vision™ OPLC™

Technical Specifications V530-53-B20B

This guide provides specifications for Unitronics' monochrome touchscreen controller V530-53-B20B.

For additional product documentation, check the Technical Library, located at www.unitronics.com and on the Unitronics' Setup CD.

Technical support is available at the site, and from support@unitronics.com.

Technical Specifications

Power Supply

Input voltage 12VDC or 24VDC

Permissible range 10.2VDC to 28.8VDC with less than 10% ripple

Max. current consumption

12VDC 470mA 24VDC 230mA Typical power consumption 5.1W

Battery

Back-up 7 years typical at 25°C, battery back-up for RTC and system data,

including variable data

Replacement Yes, without opening the controller.

Graphic Display Screen

LCD Type Graphic, monochrome black and white, FSTN

Display resolution, pixels 320x240 (QVGA)

Viewing area 5.7"

Touchscreen Resistive, analog

Screen contrast Via software (Store value to SI 7)

Refer to VisiLogic Help topic

Setting LCD Contrast.

Program

Application memory 1000K

Operand type	Quantity	Symbol	Value
Memory Bits	4096	MB	Bit (coil)
Memory Integers	2048	MI	16-bit
Long Integers	256	ML	32-bit
Double Word	64	DW	32-bit unsigned
Memory Floats	24	MF	32-bit
Timers	192	Т	32-bit
Counters	24	С	16-bit

Data Tables 120K (dynamic)/ 192K (static)

HMI displays Up to 255

Program scan time 30µsec per 1K of typical application

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Weight

Communication				
Serial Ports	2. See Note			
RS232				
Galvanic isolation	No			
Voltage limits	±20V			
Baud rate range	COM1	COM2		
	300 to 57600 bps	300 to 115200 bps		
Cable length	Up to 15m (50')			
RS485				
Galvanic isolation	No			
Voltage limits	-7 to +12V			
Baud rates	300 to 115200 bps			
Nodes	Up to 32			
Cable type	Shielded twisted pair	, in compliance with EIA RS485		
Cable length	Up to 1200m (4000')			
CANIbus mont				
CANbus port Nodes	1 CANopen	Unitronics' CANbus protocols		
Noues	127	60		
Power requirements	24VDC (±4%), 40mA	I		
Galvanic isolation	Yes, between CANbu	•		
Cable length/baud rate	25 m 1 Mbit/s			
Cable length/bada rate	100 m 500 Kb			
	250 m 250 Kb			
	500 m 125 Kb			
	500 m 100 Kb 1000 m* 50 Kbit			
	1000 m* 20 Kbit			
Optional port	User may install an a	dditional port, available by separate order.		
- passess pass	Available port types a	are: RS232/RS485, and Ethernet.		
Notes:	. ,,	,		
COM 1 supports RS232 only.				
COM 2 may be set to either RS232/RS485 according to jumper settings as shown in the product's				
Installation Guide. Factory setting: RS232.				
<u>l/Os</u>				
Via module	Number of I/Os and t	ypes vary according to module. Supports up to		
	171 digital, high-spee	ed, and analog I/Os.		
Snap-in I/O modules		provides an on-board I/O configuration.		
Expansion modules		o 8 I/O Expansion Modules comprising up to 128		
	additional I/Os. Numb	per of I/Os and types vary according to module.		
<u>Dimensions</u>				
Size	197X146.6X68.5mm	(7.75" X 5.77" X2.7")		
144 1 1 4				

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750g (26.5 oz)

Mounting	
Panel-mounting	Via brackets
Environment	
Inside cabinet	IP20 / NEMA1 (case)
Panel mounted	IP65 / NEMA4X (front panel)
Operational temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
Relative Humidity (RH)	5% to 95% (non-condensing)

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