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 <u>www.unitronics.com</u> 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			

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 RS485	Up to 15m (50')			
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')			
CANbus port	1			
Nodes	CANopen Unitronics' CANbus protocols			
	127 60			
Power requirements	nts 24VDC (±4%), 40mA max. per unit			
Galvanic isolation	Yes, between CANbus and controller			
Cable length/baud rate	25 m 1 Mbit/s			
	100 m 500 Kbit/s 250 m 250 Kbit/s			
	500 m 125 Kbit/s			
	500 m 100 Kbit/s			
	1000 m* 50 Kbit/s * If you require cable lengths over 500			
	1000 m* 20 Kbit/s meters, contact technical support.			
Optional port	User may install an additional port, available by separate order.			
	Available port types are: RS232/RS485, and Ethernet.			
<u>Notes:</u>				
COM 1 supports RS232 only				
COM 2 may be set to either Installation Guide. Factory s	RS232/RS485 according to jumper settings as shown in the product's			
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<u>I/Os</u> Via madula	Number of 1/Oo and tunos your apportion to module. Our parts we to			
Via module	Number of I/Os and types vary according to module. Supports up to 171 digital, high-speed, and analog I/Os.			
Snap-in I/O modules	Plugs into rear port; provides an on-board I/O configuration.			
Expansion modules	Via adapter, use up to 8 I/O Expansion Modules comprising up to 128 additional I/Os. Number of I/Os and types vary according to module.			
Dimensions	··· · · ·			
Size	197X146.6X68.5mm (7.75" X 5.77" X2.7")			
Weight	750g (26.5 oz)			
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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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