Vision™ OPLC™

Technical Specifications
Models V570-57-C30B, V570-57-T40B

This guide provides specifications for Unitronics' color touchscreen controllers V570-57-C30B and V570-57-T40B. You can find additional documentation on the Unitronics' Setup CD and in the Technical Library at www.unitronics.com.

Technical Specifications

Power Supply

Input voltage	24VDC
Permissible range	20.4 VDC to 28.8VDC with less than 10% ripple
Max. current consumption	TBD
Typical power consumption	TBD

Battery

Back-up	7 years typical at 25°C, battery back-up for RTC and system data, including variable data.
Replaceable	Yes, without opening the controller.

Graphic Display Screen

LCD Type	V570-57-C30B	V570-57-T40B
	CSTN	TFT
Illumination backlight	CCFL fluorescent lamp	
Display resolution, pixels	320x240 (QVGA)	
Viewing area	5.7"	
Colors	256	
Touchscreen	Resistive, analog	
'Touch' indication	Via buzzer	
Screen contrast	Via software (Store value to SI 7). See Note 1.	
Screen brightness	Via software (Store value to SI 9).	
Keypad	Displays virtual keyboard when the application requires data entry.	

Notes:

1. CSTN screens support both contrast and brightness. TFT screens support brightness only.

Program

Application memory	2MB		
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	T	32-bit
Counters	24	C	16-bit
Data Tables	120K (dynamic)/ 192K (static)		
HMI displays	Up to 1024		
Program scan time	9 µsec per 1K of typical application		

Communication

Serial Ports	2. See Note 2		
RS232			
Galvanic isolation	Yes		
Voltage limits	±20V		
Baud rates	300 to 115200 bps		
RS485			
Galvanic isolation	Yes		
Voltage limits	±20V		
Baud rate range	300 to 115200 bps		
Nodes	Up to 32		
CANbus port	1		
Power requirements	24VDC (±4%), 40mA max. per unit		
Galvanic isolation	Yes, between CANbus and controller		
Nodes	Up to 63		
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 meters, contact technical support.
	1000 m*	20 Kbit/s	
Optional port	User may install a single Ethernet port, available by separate order.		

Notes:

2. The standard for each port is set to either RS232/RS485 according to DIP switch settings. Refer to the Installation Guide.

I/Os

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.
Exp. port isolation	Galvanic

Dimensions

Size	197X146.6X68.5mm (7.75" X 5.77" X2.7")
Weight	750 gm (26.4 oz)

Mounting

Panel-mounting	Via brackets

Environment

Inside cabinet	IP20 / NEMA1 (case)
Panel mounted	IP65 / NEMA4X (front panel)
Operational temperature	0 to 50ºC (32 to 122ºF)
Storage temperature	-20 to 60ºC (-4 to 140ºF)
Relative Humidity (RH)	5% to 95% (non-condensing)

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