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	320mA@24V
Typical power consumption	6.5W

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	8192	MB	Bit (coil)
Memory Integers	4096	MI	16-bit
Long Integers	512	ML	32-bit
Double Word	256	DW	32-bit unsigned
Memory Floats	64	MF	32-bit
Timers	384	T	32-bit
Counters	32	C	16-bit
Data Tables	120K (dynamic)/ 192K (static)		
HMI displays	Up to 1024		
Program scan time	9 µsec per 1K of typical application		

Removable Memory

SD card

File system	User must format via Unitronics SD tools utility. See Note 2

Notes:

2. The SD memory card slot uses the PC-compatible FAT32 file system. User can store data logs, alarm history, data tables, backup ladder, HMI, and OS.

Communication

Serial ports	2. See Note 3
RS232	
Galvanic isolation	Yes
Voltage limits	±20V
Baud rate range	300 to 115200 bps
Cable length	Up to 15m (50')
RS485	
Galvanic isolation	Yes
Voltage limits	−7 to +12V
Baud rate range	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	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 meters, contact technical support.
	1000 m*	20 Kbit/s	

Optional port	User may install a single Ethernet port, or an RS232/RS485 port. Available by separate order.

Notes:

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

I/Os

	Number of I/Os and types vary according to module. Supports up to 512 digital, high-speed, and analog I/Os.
Snap-in I/O modules	Plugs into rear port to create self-contained PLC with up to 43 I/Os.
Expansion modules	Local adapter, via I/O Expansion Port. Integrate up to 8 I/O Expansion Modules comprising up to 128 additional I/Os. Remote adapter, via CANbus port. Connect up to 60 adapters; connect up to 8 I/O expansion modules to each adapter.
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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