

This guide provides specifications for Unitronics' color touchscreen controllers V570-57-T20B 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

	V570-57-T20B	V570-57-T40B
Input voltage	12 or 24VDC	24VDC
Permissible range	10.2-28.8VDC	20.4-28.8VDC
Max. current consumption	540mA@12V 270mA@24V	320mA@24V

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

	V570-57-T20B	V570-57-T40B
LCD Type	TFT	TFT
Illumination backlight	White LED	CCFL fluorescent lamp
Display resolution, pixels	320x240 (QVGA)	
Viewing area	5.7"	
Colors	256	
Touchscreen	Resistive, analog	
'Touch' indication	Via buzzer	
Screen brightness	Via software (Store value to SI 9).	
Keypad	Displays virtual keyboard when the application requires data entry.	

Program

Memory size Application Logic – 2MB, Images – 6MB, Fonts – 1MB

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 data (recipe parameters, datalogs, etc.)
192K fixed data (read-only data, ingredient names, etc.)

HMI displays Up to 1024
Program scan time 9 µsec per 1K of typical application

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	<u>Local adapter</u> (P.N. EX-A1), via I/O Expansion Port. Integrate up to 8 I/O Expansion Modules comprising up to 128 additional I/Os. <u>Remote adapter</u> (P.N. EX-RC1), 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"). See Note 3
Weight	750 gm (26.4 oz)

Notes:

4. For exact dimensions, refer to the product's Installation Guide.

Mounting

Panel-mounting	Via brackets
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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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