

This guide provides specifications for Unitronics' color touchscreen controllers V570-57-T20B & V570-57-T20B-J. 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	12 or 24VDC
Permissible range	10.2-28.8VDC with less than 10% ripple
Max. current consumption	540mA@12VDC 270mA@24VDC

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

	See Note 1
LCD Type	TFT
Illumination backlight	White LED
Display resolution, pixels	320x240 (QVGA)
Viewing area	5.7"
Colors	65,536 (16-bit)
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.

Notes:

1. Note that the LCD screen may have a single pixel that is permanently either black or white.
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Program

Memory size Application Logic – 2MB, Images – 12MB, 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 RAM data (recipe parameters, datalogs, etc.)
Up to 256K Flash data

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 1024 digital, high-speed, and analog I/Os.
Snap-in I/O modules	Plugs into rear port to create self-contained PLC with up to 62 I/Os.
Expansion modules	<u>Local adapter</u> (P.N. EX-A2X), 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 6
Weight	750 gm (26.4 oz)

Notes:

- 6. 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	V570-57-T20B	V570-57-T20B-J
	IP65/NEMA4X (front panel)	IP65/66/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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