

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

	See Note 1	
	V570-57-T20B & V570-57-T20B-J	V570-57-T40B
LCD Type	TFT	TFT
Illumination backlight	White LED	CCFL fluorescent lamp
Display resolution, pixels	320x240 (QVGA)	
Viewing area	5.7"	
Colors	65,536	
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.

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 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

Removable Memory

SD card Compatible with fast SD cards; store datalogs, Alarms, Trends, Data Tables, backup Ladder, HMI, and OS. See Note 2

Notes:

- User must format via Unitronics SD tools utility.

Communication

Serial ports 2. See Note 3

RS232

Galvanic isolation Yes
Voltage limits ±20VDC absolute maximum
Baud rate range 300 to 115200 bps
Cable length Up to 15m (50')

RS485

Galvanic isolation Yes
Voltage limits –7 to +12VDC differential maximum
Baud rate range 300 to 115200 bps
Nodes Up to 32
Cable type Shielded twisted pair, in compliance with EIA RS485
Cable length 1200m maximum (4000')

CANbus port

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
1000 m*	20 Kbit/s

* If you require cable lengths over 500 meters, contact technical support.

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

Notes:

- The standard for each port is set to either RS232/RS485 according to DIP switch settings. Refer to the Installation Guide.
- V570-57-T20B & V570-57-T20B-J supports both 12 and 24VDC CANbus power supply, (±4%), 40mA maximum per unit. Note that if 12 VDC is used, the maximum cable length is 150 meters.

I/Os

Number of I/Os and types vary according to module. Supports up to 1000 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 Local adapter (P.N. EX-A1), via I/O Expansion Port. Integrate up to 8 I/O Expansion Modules comprising up to 128 additional I/Os.

Remote adapter (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 5

Weight 750 gm (26.4 oz)

Notes:

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

Mounting

Panel-mounting Via brackets

Environment

Inside cabinet	IP20 / NEMA1 (case)	
Panel mounted	V570-57-T20B & V570-57-T40B	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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DTS-V570-TX0B 05/11