

**Vision™ OPLC™****Technical Specifications****Models V570-57-T20B & V570-57-T20B-J ,  
V570-57-T40B**

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](http://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	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.	

**Notes:**

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

**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

**Removable Memory**

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

**Notes:**

2. 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.

