

This guide provides specifications for Unitronics' LCD color touchscreen models V290-19-C30B and V290-19-T40B.

You can find additional information in the Vision User Guide.pdf, an e-book located on the Unitronics' Setup CD and in the Technical Library at [www.unitronics.com](http://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	T.B.D.
Typical power consumption	T.B.D.

#### Battery

Back-up	7 years typical at 25°C, battery back-up for RTC and system data, including variable data.
Replacement	Yes. Refer to instructions in the document: Replacing a Battery V230-260-280-290.pdf, available from Unitronics' Technical Library.

#### Graphic Display Screen

LCD Type	V290-19-C30B	V290-19-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). Refer to VisiLogic Help topic Setting LCD Contrast.	

#### Program

Application memory	1000K		
Operand type	Quantity	Symbol	Value
Memory Bits	4096	MB	Bit (coil)
Memory Integers	2048	MI	16-bit signed/unsigned
Long Integers	256	ML	32-bit signed/unsigned
Double Word	64	DW	32-bit unsigned
Memory Floats	24	MF	32-bit signed/unsigned
Timers	192	T	32-bit
Counters	24	C	16-bit
Data Tables	120K (RAM)/ 192K (Flash)		
HMI displays	Up to 255		
Execution time, bit operation	0.4µsec		

#### Communication

Serial Ports	2. See Note 1
RS232	
Galvanic isolation	Yes
Voltage limits	±20V
Baud rates	300 to 115200 bps

RS485	Galvanic isolation	Yes	
	Voltage limits	±20V	
	Baud rate range	300 to 115200 bps	
	Nodes	Up to 32	
CANbus		1 port	
	Power requirements	24VDC (±4%), 40mA max. per unit	
	Galvanic isolation	Yes, between CANbus and controller	
	Nodes	Up to 63	
	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
		1000 m*   20 Kbit/s	meters, contact technical support.

**Notes:**

1. The standard for each port is set to either RS232/RS485 by settings and wiring. Refer to the Installation Guide.

**I/Os**

Via module	Number of I/Os and types vary according to module. Supports up to 171 digital, high-speed, and analog I/Os.
Snap-in modules	Plugs onto rear of controller, provides an on-board I/O configuration.
Expansion modules	Via adapter, use up to 8 I/O Expansion Modules; add up to 128 I/Os.
Exp. port isolation	Galvanic

**Dimensions**

Size	260 x 155 x 72 mm (10.24 x 6.1 x 2.8")
Weight	800g (28.2 oz)

**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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