# Vision™ OPLC™

# Technical Specifications V560-T25B

This guide provides specifications for Unitronics' controller V560-T25B, which comprises a built-in operating panel containing a 5.7" color touchscreen and an alpha-numeric keypad with function keys. 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

 Max. current consumption
 540mA@12V 270mA@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

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.

### Keypad

Number of keys 24 programmable function keys Key type Metal dome, sealed membrane switch

Slides Slides may be installed in the operating panel faceplate to custom-

label the keys. One blank set of slides is supplied with the controller.

Distributed by:

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<u>Program</u>				
Memory size	Applicatio	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	С	16-bit	
Data Tables	,	120K dynamic data (recipe parameters, datalogs, etc.) 192K fixed data (read-only data, ingredient names, etc)		
HMI displays	Up to 102	Up to 1024		
Program scan time	9 µѕес ре	9 μsec per 1K of typical application		

## Removable Memory

Communication
Serial ports

Cable length/baud rate

See Note 4

SD card Compatible with fast SD cards; store datalogs, Alarms, Trends,

Data Tables, backup Ladder, HMI, and OS. See Note 2

## Notes:

RS232

2. User must format via Unitronics SD tools utility.

Galvanic isolation Voltage limits Baud rate range	Yes ±20VDC absolute maximum 300 to 115200 bps		
Cable length	Up to 15m (50')		
RS485	Op to 13111 (3	0 )	
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	1		
Nodes	CANopen	Unitronics' CANbus protocols	
	127	60	
Power requirements	24VDC (±4%), 40mA max. per unit. See Note 4		
Galvanic isolation	Yes, between CANbus and controller		

25 m

100 m

250 m

500 m

500 m

1000 m\*

1000 m\*

1 Mbit/s

500 Kbit/s

250 Kbit/s

125 Kbit/s

100 Kbit/s

50 Kbit/s

20 Kbit/s

2. See Note 3

\* 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.

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

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 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 228.4X146.5X70.5mm (8.99"X5.76"X2.77"). See Note 5

Weight 750 gm (26.4 oz)

Notes:

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

## Mounting

Panel-mounting Via brackets

### **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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