Vision™ OPLC™

Technical Specifications Models V230/260/280/290

This guide provides specifications for Unitronics' models V230-13-B20B, V260-16-B20B, V280-18-B20B, V290-19-B20B,

You can find additional information on the Unitronics Setup CD and in the Technical Library at www.unitronics.com.

Technical Specifications

<u>r Supply</u>	<u>Power</u>
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12VDC or 24VDC Input voltage

Permissible range 10.2VDC to 28.8VDC with less than 10% ripple

Max. current consumption

max. carrent consumption	·				
	V230	V260	V280	V290	
@12VDC	280mA	460mA	540mA	470mA	
@24VDC	140mA	220mA	270mA	230mA	
Typical power consumption	2.5W	4.2W	5.4W	5.1W	

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	v Screen
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	V230	V260	V280	V290
LCD Type	STN	Neg. blue STN	Graphic B&W FS	TN
Illumination backlight	LED yellow- green	CCFL fluorescent lamp		mp
Display resolution, pixels	128x64	240x64	320x240 (QVGA))
Viewing area	3.2"	5.4"	4.7"	5.7"
Touchscreen	None		Resistiv	e, analog
'Touch' indication	None		Software (SB16)	Software (SB16); Via buzzer
Screen contrast	Manually adjusted. Refer to VisiLogic Help topic: Setting LCD Contrast/Brightness		Via software (Sto Refer to VisiLogic Setting LCD Con	c Help topic:

Kevboard

	V230	V260	V280	V290
Number of keys	24	33	27	none (virtual)
	Includes soft k			
Key type	Metal dome, se	none		
Slides	Picture, alphar	none		

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Program			
Application memory	1MB		
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		amic)/192k	
HMI Displays	Up to 255	arriic)/ 1921	(Static)
Scan Time	•	r 1K of typ	ical application
	ооръес ре	i ii oi typ	icai application
Communication			
Serial Ports	2. See No	te 1	
RS232			
Galvanic isolation	No		
Voltage limits		olute maxin	
Baud rate range	COM1		COM2
	300 to 57600 bps 300 to 115200 bps		
Cable length	Up to 15m	(50′)	
RS485			
Galvanic isolation	No		
Voltage limits	-7 to +12\	/ differentia	al maximum
Baud rates	300 to 115200 bps		
Nodes	Up to 32		
Cable type	Shielded twisted pair, in compliance with EIA RS485		
Cable length	Up to 120	0m (4000')	
CANbus port	1		I
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 250 m	500 Kb 250 Kb	
	500 m	125 Kb	
	500 m	100 Kb	
	1000 m*	50 Kbit	, ,
	1000 m*	20 Kbit	, , , , , , , , , , , , , , , , , , ,
Optional port	,		dditional port, available by separate order.
	A		are: DC222/DC495, and Ethernet

Notes:

1. COM1 supports RS232 only.

COM2 may be set to either RS232/RS485 according to jumper settings as shown in the product's Installation Guide. Factory setting: RS232.

Available port types are: RS232/RS485, and Ethernet.

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I/Os				
Via module	Number of I/Os and types vary according to module. Supports up to 256 digital, high-speed, and analog I/Os.			
Snap-in I/O modules	Plugs into rear p	ort to create self-	contained PLC wit	th up to 43 I/Os.
Expansion modules	Local adapter, via I/O Expansion Port. Integrate up to 8 I/O Expansion Modules comprising up to 128 additional I/Os.			
	Remote I/O adapter, via CANbus port. Connect up to 60 adapters; connect up to 8 I/O expansion modules to each adapter.			
Dimensions				
Size	See mechanical drawings in the document V230_260_280_290 Installation Guide.pdf, available from Unitronics' Technical Library.			
	V230	V260	V280	V290
Weight	429g (15.1 oz)	695g (24.5 oz)	860g (30.4 oz)	840g (29.7 oz)
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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DTS-V2xx 06/08

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