Vision™ OPLC™

Technical Specifications Models 230/260/280/290 (Non-color Screens)

This guide provides specifications for Unitronics' Models 230/260/280/290 (Non-color Screens).

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.

Technical Specifications

Power	Sup	ply
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Input voltage 12VDC or 24VDC

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

Max. current 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

7 years typical at 25°C, battery back-up for RTC and system data. Back-up

including variable data.

Yes. Refer to instructions in the document: Replacing a Battery Replacement V230-260-280-290.pdf, available from Unitronics' Technical Library.

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Gra	nnıc	Display	/ Screen

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	V230	V260	V280	V290
LCD Type	STN	Neg. blue STN	Graphic B&W I	FSTN
Illumination backlight	LED yellow- green	CCFL fluorescent lamp		
Display resolution, pixels	128x64	240x64 320x240 (QVGA)		iA)
Viewing area	3.2"	5.4"	4.7"	5.7"
Touchscreen	None		Resist	ive, analog
'Touch' indication	None		Via	a buzzer
Screen contrast	Manually adjusted. Refer to section Operating Panel Options in Vision User Guide.		Via software (S Refer to VisiLo Setting LCD Co	

Kevboard

	V230	V260	V280	V290	
Number of keys	24	33	27	none (virtual)	
	Includes soft	Includes soft keys and alphanumeric keypad			
Key type	Metal dome,	Metal dome, sealed membrane switch			
Slides	Picture, alph	Picture, alphanumeric keypad, and Function keys			

Program

1000K		
Quantity	Symbol	Value
4096	MB	Bit (coil)
2048	MI	16-bit signed/unsigned
256	ML	32-bit signed/unsigned
64	DW	32-bit unsigned
	Quantity 4096 2048 256	Quantity Symbol 4096 MB 2048 MI 256 ML

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Memory Floats	24	MF	32-bit signed/unsigned
Timers	192	Т	32-bit
Counters	24	С	16-bit
Data Tables	120K (RAM)/ 192K (Flash)		
HMI displays	Up to 255		
Execution time, bit operation	0.5msec per 1K word		

Communication Ports

RS232 2 ports Isolation No Voltage limits ± 20 V

Baud rates COM 1 COM 2

300 to 57600 bps 300 to 115200 bps

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

I/O Expansion

Expansion port Via adapter, use up to 8 I/O Expansion Modules comprising up to 128

additional I/Os. Number of I/Os and types vary according to module.

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
 429q (15.1 oz)
 695q (24.5 oz)
 860q (30.4 oz)
 840q (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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