

# V290-19-B20B Technical Specifications

## Power Supply

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Input voltage	12VDC or 24VDC
Permissible range	10.2VDC to 28.8VDC with less than 10% ripple
Maximum current consumption	470mA @ 12VDC 230mA @ 24VDC
Typical power consumption	5.1W

## Battery Back-up

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7 year typical battery back-up for real-time clock (RTC) and system data

## Graphic Display Screen

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Type	Graphic B&W FSTN LCD
Illumination backlight	CCFL (fluorescent lamp)
Display resolution	320x240 pixels (QVGA)
Viewing area	5.7"
Touchscreen	Resistive, analog

## Program

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Application memory	1000K	
Operand type	Quantity	Symbol
Memory Bits (coils)	2048	MB
Memory Integers (Registers)	1600	MI
Long Integers (32 bit)	256	ML
Double Word (unsigned)	64	DW
Memory Floats	24	MF
Timers	192	T
Counters	24	C
Data Tables	120K (RAM)/64K (Flash)	
HMI displays	Up to 255	
Execution time for bit operation	0.5msec per 1K word	

## Communication

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RS232	2 ports
Isolation	No
Voltage limits	±20V
CANbus port	1 port
Galvanic Isolation	Yes
Nodes	Up to 63
Baud rate range	20Kbits—1Mbit
Cable length	Up to 1000m for 24VDC network

## I/O Expansion

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Expansion port	Via adapter, integrates up to 8 I/O Expansion Modules
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## Dimensions

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Size: See mechanical drawings	See User Guide Page 38
Weight	840g (29.7 oz)

## Mounting

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Panel-mounting cut-out diagrams	See User Guide Page 13
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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)

## Accessories

Programming cable  
 3 pin power supply connector  
 5 pin CANbus connector plug  
 Mounting brackets (x4)  
 VisiLogic Software CD

### About Unitronics

Unitronics has been producing PLCs, automation software and accessory devices since 1989.

Unitronics' OPLC controllers combine full-function PLCs and HMI operating panels into single, compact units. These HMI + PLC devices are programmed in a single, user-friendly environment. Our clients save I/O points, wiring, space, and programming time; elements that translate directly into cost-efficiency.

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