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PS 52 Power Supply Bar Code Systems



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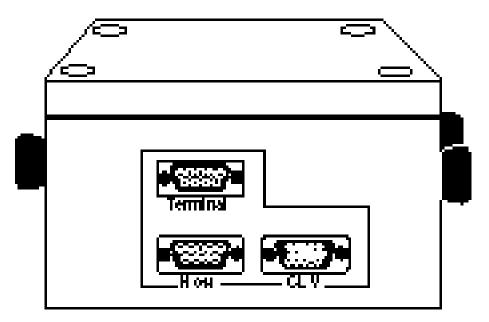
The PS 52 Power Supply, with an input voltage of 115/230 V AC or 24 V DC (model dependent), is designed to provide a 24 V DC source for a single CLV 21X, 220 or 41X bar code scanner. Standard 9-pin D-Sub and 15-pin D-Sub female connectors make for easy connectivity on the PS 52. The PS 52 also acts as a distribution or breakout box, since its terminal block can be easily accessed via PG connector ports located on the side of the enclosure. The terminal block incorporates the communication interface and discrete inputs/outputs of the scanners. This terminal block provides easy access in applications where hardwiring, due to long cable runs, is preferable to a D-Sub connector type interface.



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PS 52 Port Functionality





PORT FUNCTIONALITY

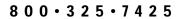
Terminal Connection to Host Device to program the CLV series scanners using the CLV Setup Software. The communication parameters are an RS 232 interface with a 2400-baud rate, 8 data bits, 1 stop bit, and no parity. A straight through cable can be used to connect this port to the RS 232 serial port of the PC. This port is a 9-pin D-Sub female connector.

*Note: Only used for the CLV 21x and 220 scanners

Host Connection to Host Device is for transmission of the bar code data to the Host Device. The interface is dependent upon the type of bar code scanner attached. This port is a 9-pin D-Sub female connector.

*Note: Also used to program CLV 410, 412 and 414 bar code scanners using the CLV Setup Software

CLV Connection of the CLV 21x, 220 and 41x to supply power, communications, and discrete input/output. This port is a 15-pin D-Sub high density female connector.



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PIN	TERMINAL PORT ¹	HOST PORT		CLV PORT ²				
1	N/C	N/C		+24 V		+24 V		
2	AUX TxD RS232	TxD RS232		Sensor 2		AUX R	хD	RS232
3	AUX RxD RS232	RxD RS232		Output 3		AUX T	хD	RS232
4	N/C	Term 422		Term 422		Term 422		
5	GND	GND		GND		GND		
6	N/C	T+	RS422	R+	RS422	R+	RS422	
7	N/C	T-	RS422	R-	RS422	R-	RS422	
8	N/C	R+	RS422	T+	RS422	T+	RS422	
9	N/C	R-	RS422	Т-	RS422	Т-	RS422	
10				RxD	RS232	RxD	RS232	
11				TxD	RS232	TxD	RS232	
12				Output	1	Device	Ready	
13				Output	2	Read F	Result	
14				Sensor	[.] 1	Sensor		
15				Sensor	GND	Sensor	GND	

D-Sub Connector Pin-out Functionality

¹Configuration for use with CLV 21x, 220 ²Configuration for use with 41x

Figure 2



16 Pole Terminal Block

The 16 pole terminal block is used to make hardwire connection to various bar code scanner signals. In most applications, this is not required. Below is the list of signals and functionality of each.

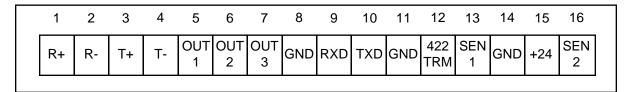


Figure 3

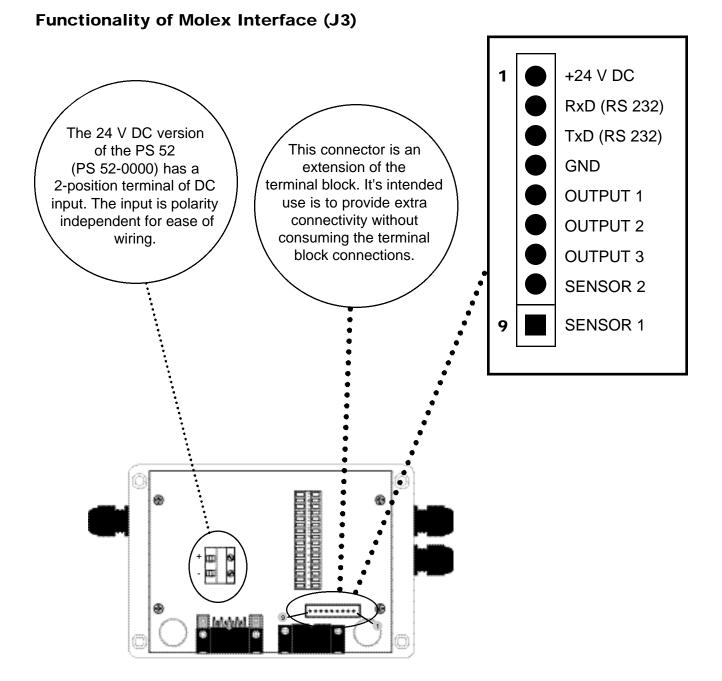
PIN #	SIGNAL	FUNCTION
1	R+	RS 422 Receive + line from CLV host port (Also RS 485 Receive line)
2	R-	RS 422 Receive - line from CLV host port
3	T+	RS 422 Transmit + line from CLV host port (Also RS 485 Transmit line)
4	Τ-	RS 422 Transmit - line from CLV host port
5	OUT 1	Discrete output line #1 24 V DC PNP (Device Ready)
6	OUT 2	Discrete output line #2 24 V DC PNP (Read Result)
7	OUT 3	Discrete output line #3 24 V DC PNP
8	GND	Signal Ground
9	RXD	RS 232 Receive line from CLV Host port
10	TXD	RS 232 Transmit line from CLV Host port
11	GND	Signal Ground
12	422 TERM	Termination line for the RS 422 interface
13	SEN 1	Sensor input line (1) to trigger the scanner
14	GND	Signal Ground
15	+ 24	24 V DC line
16	SEN 2	Sensor input line (2) to trigger the scanner

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Figure 4

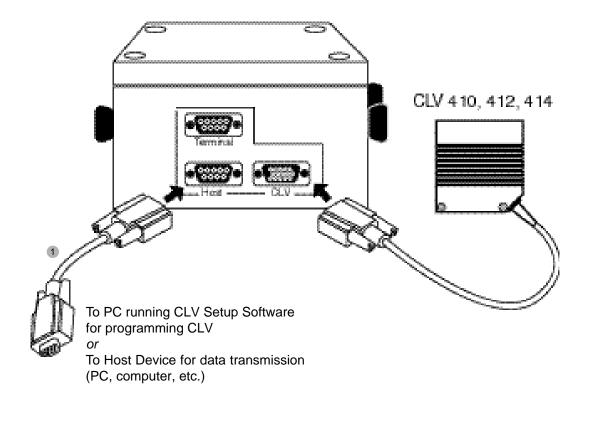
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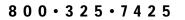
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CLV 410, 412, 414 Standard Configuration

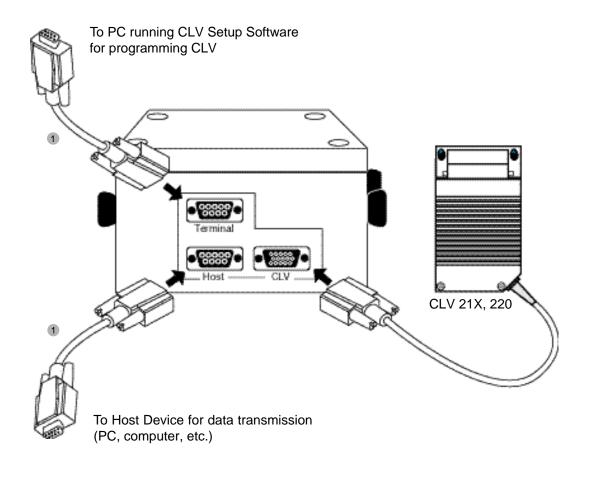


1	7 021 851	2 m Interface Cable
	7 021 849	3 m Interface Cable



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CLV 21X, 220 Standard Configuration



1	7 021 851	2 m Interface Cable
	7 021 849	3 m Interface Cable

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Dimensional Drawings

Dimensions in mm (in)

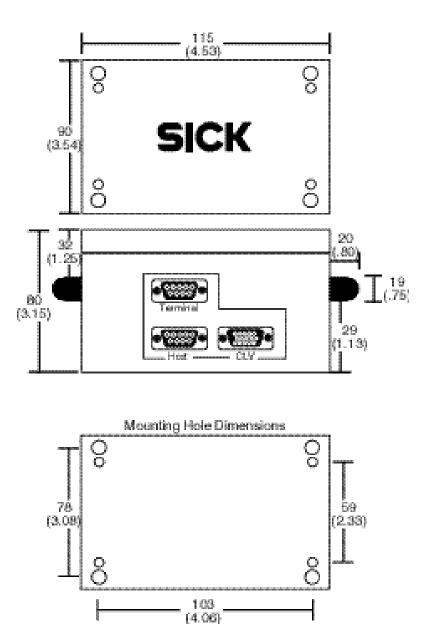


Figure 6

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Technical Specifications

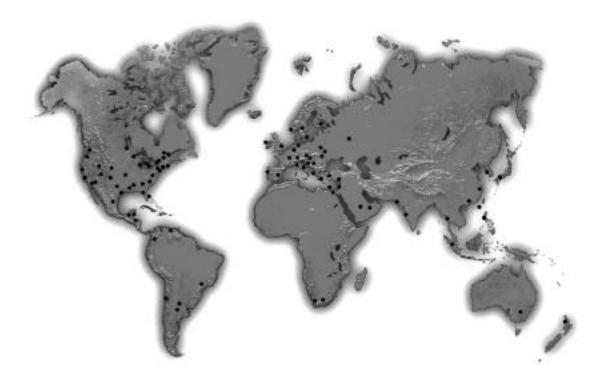
PS 52 POWER SUPPLY	
Input Voltage	115 V AC / 230 V AC 60/50 Hz
Output Voltage	24 V DC ±20%
Max. Power Output	350 mA
Enclosure Material	Polycarbonate
Enclosure Rating	NEMA 12 (pending), FCC Class A Part 15 compliance, CE compliant
Transformer Rating	UL, CSA
Dimensions (L x W x H)	115 x 90 x 80 mm (4.53 x 3.54 x 3.15 in)
Weight	0.64 kg (1.40 lb)
Operating Temperature	070° C (32158° F)
Relative Humidity	90% non-condensing
Mounting	One side, 4 holes, 4.76 mm (.19 in) diameter
Power Cord Length	1.83 m (6 ft)

Figure 7



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