

Remote Control Station HE800RCS116/ HE800RCS210 / RCS250

Products Specifications and Installation Data

For more information on the RCS116, refer to the OCS LX Series Hardware Manual (MAN0755).

For more information on the **RCS210 / RCS250**, refer to the *Control Station Hardware Manual* (MAN0227).

1 SPECIFICATIONS

Table 1 – Specifications for RCS116 / 210RCS210 / RCS250				
Humidity	5% to 95% non-condensing			
Primary Power Range*	10-30VDC			
Ladder Execution				
Typical Execution Speed	0.7 ms. per 1K of boolean logic.			
Ladder Capacity	RCS116: 16Kbytes			
, , , , , , , , , , , , , , , , , , ,	RCS210: 64Kbytes			
	RCS250: 128KBytes			
CAN Power Range	12 – 25 VDC			
CAN Power Current	75mA maximum			
Primary Serial	Standard 9 pin RS-232 for programming, monitoring, and network			
	administration. Modbus/RTU Master, Slave, ASCII Send and Receive,			
	and CsCAN Serial also supported.			
CAN Network	CsCAN Network / DeviceNet Slave			
Input / Output	Local (All Modules): Maximum of four (4) SmartStack Modules per OCS			
	Remote (OCS110 / 210/ 250 / or RCS250 Modules):			
	In addition to 4 local I/O modules, up to 20 remote SmartStack I/O			
	Modules can be connected to an OCS or RCS using five Fiber Optic			
	Bases, which each contain four I/O slots.			
UL	Please refer to Compliance Table located at			
CE	http://www.heapg.com/Support/compliance.htm			
Operating Temperature	0°C to +60°C			
Typical Power Draw *	150mA @ 24VDC			
Inrush Current *	1A @ 24VDC for 8mS			
Height	7.00" (177.8 mm)			
Width	1.75" (44.45 mm)			
Mounting Depth	4.00" (101.60 mm)			
Keypad	Although the RCS does <u>not</u> have a <i>local</i> operator interface, it supports a			
	remote operator interface through a PC connected to the RCS unit's built-			
	in network. 32-Key (Remote Only)			
Display	Although the RCS does <u>not</u> have <i>local</i> display, it supports a remote			
	operator interface through a PC connected to the RCS unit's built-in			
	network.			

^{*} These specifications are for RCS products without any SmartStack I/O Modules attached. The specifications for the SmartStack Modules can be found in the applicable SmartStack Data Sheets.

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2 INSTALLATION

2.1 Panel Cut-Out

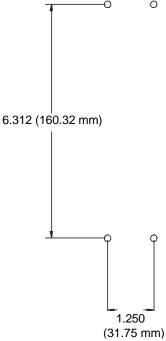


Figure 1 – Panel Cut-Out for the RCS

2.2 RCS Optional Mounting Bracket (HE800ACC210)

The optional mounting bracket is used with SmartStack Modules that have connectors located on two sides. (Note that many SmartStack Modules only have connectors on one side.)

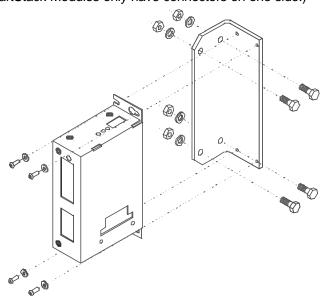
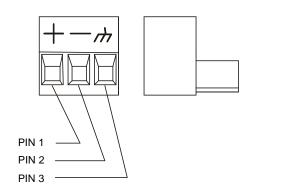


Figure 2 – Optional Mounting Bracket for Use with the RCS.

2.3 Ports, Connectors and Wiring

2.3.1 Primary Power Port

Table 2 – Primary Power Port Pins				
Pin Signal Description				
1	V+	Input power supply voltage		
2	V-	Input power supply ground		



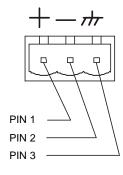


Figure 3 - Power Connector (Primary Power Port)

Figure 4 – As Viewed Looking at the RCS

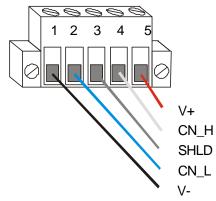
Note: Power Supply Voltage Range is from 10-30 VDC.

Warning: To provide maximum noise immunity and to ensure minimum EMI radiation, the V-signal (DC power return) need to be connected to earth ground at the power supply. The user must ensure that the power supply selected is compatible with this method of grounding.

2.3.2 CAN / DeviceNet Network Port and Wiring

a. Network Connector

Table 3 – CAN Port Pins					
Pin	Signal	Description			
1	V-	Power -			
2	CN_L	Signal -			
3	SHLD	Shield			
4	CN_H	Signal +			
5	V+	Power +			



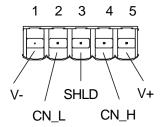


Figure 5 - Network Connector

Figure 6 - As viewed at the RCS

Warning: To provide maximum noise immunity and to ensure minimum EMI radiation, the V-signal (DC power return) need to be connected to earth ground at the power supply. The user must ensure that the power supply selected is compatible with this method of grounding.



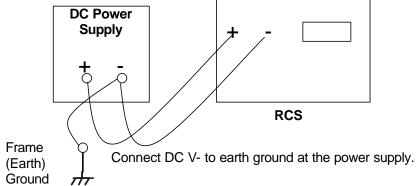


Figure 7 - Grounding Method

2.3.3 RS-232 Programming Port and Wiring

Table 4– RS-232 Port Pins					
Pin	Signal	Description	Direction		
1	DCD	Always high	Out		
2	RXD	Received Data	Out		
3	TXD	Transmitted Data	In		
4	DTR	Data Terminal Ready	In		
5	GND	Ground	-		
6	DSR	Data Set Ready	Out		
7	RTS	Request to Send	In		
8	CTS	Clear to Send	Out		
9	RI	Ring Indicate	Out		

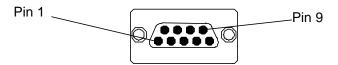


Figure 8 – RS-232 Port

The RCS units feature an RS-232 port (Programming/Debug) for connection to a personal computer. This port is used for the purposes of RCS programming, configuring, monitoring, and debugging. This port can also be used for general ladder logic controlled serial communications to printers, modems, terminals, etc. When ladder has control of this port, it is not available for programming or debugging. The wiring diagram for the RS-232 port is shown in Figure 8. If a permanent connection is to be made between the RCS and the personal computer, the use of a shielded, multiple conductor wire with a maximum length of 15.24 meters (50 feet) enables proper performance.

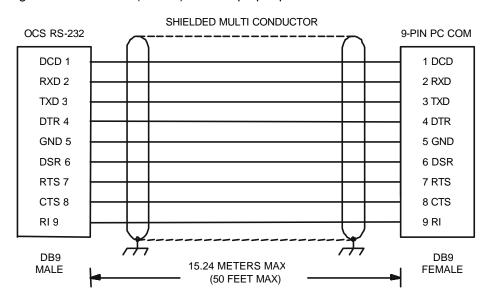


Figure 9- RCS to PC Wiring Diagram

3 SAFETY

All applicable codes and standards need to be followed in the installation of this product.

4 TECHNICAL ASSISTANCE

For updates and assistance, contact Technical Support at the following locations.

North America:

(317) 916-4274 www.heapg.com

Europe:

(+) 353-21-4321-266 www.horner-apg.com **NOTES**