HC900 Remote Termination Panel (RTP) For Analog Inputs

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Summary

The Remote Termination Panel (RTP) provides an easy way to connect the HC900 controller to the field wiring. The RTP integrates some of the typical externally connected components, reducing wiring and setup time. It also minimizes the need for multiple wires under a single screw connection by expanding the connectivity of the shared terminals of the I/O modules. *RTP is not useable for thermocouples*.

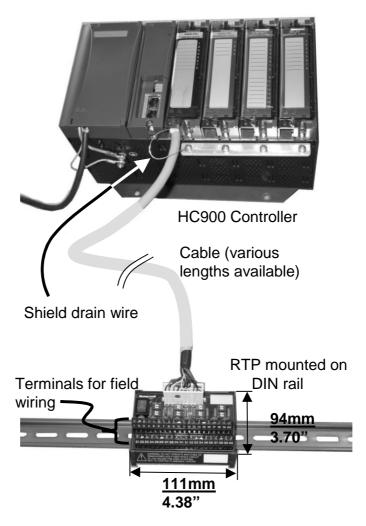
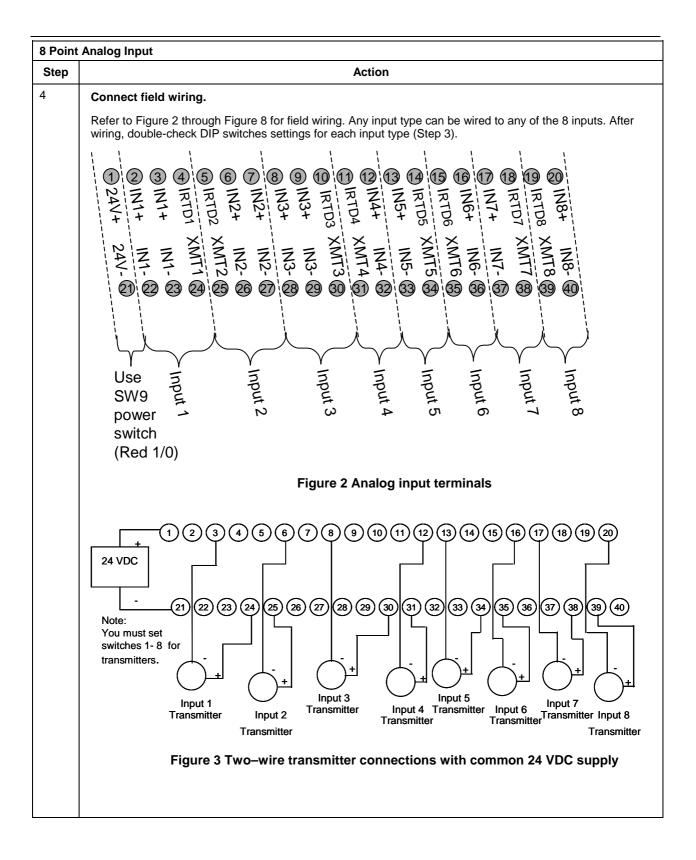


Figure 1 Example installation

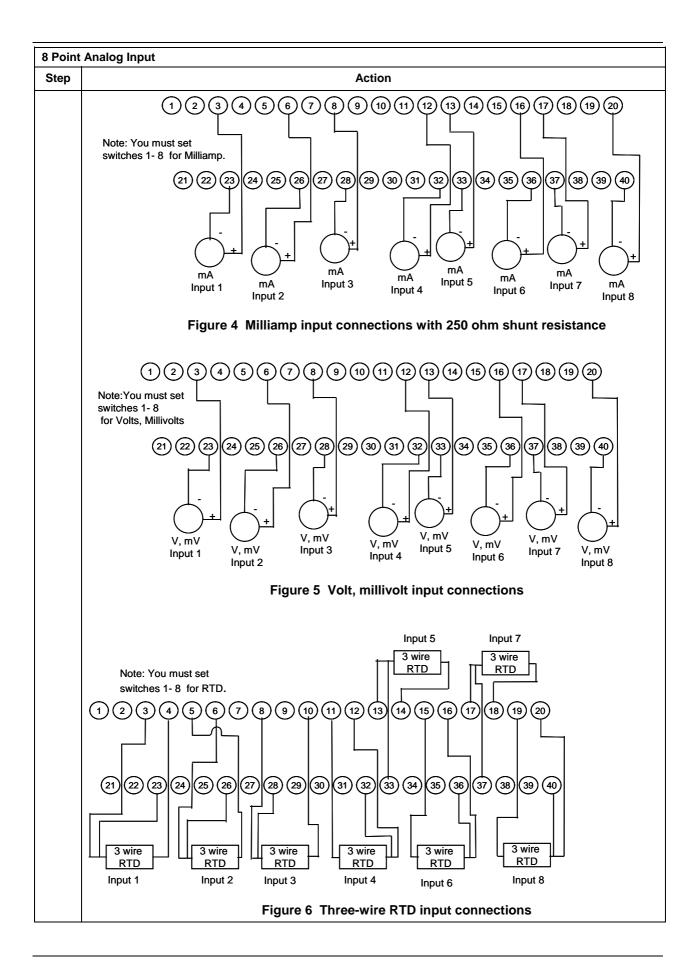
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8 Point Analog Input						
Step	Action					
1	ATTENTION: RTP is not for use with thermocouples.					
	ATTENTION: RTP and cables are intended for permanent installation within their own enclosure.					
	Mount RTP cable assembly to HC900 Controller (Figure 1).					
	 Remove appropriate key tabs from terminal block to allow mating with the module. See HC900 Hybrid Controller Installation and User guide 51-52-25-107 for details. 					
	Connect desired cable to Al module at controller. Choose from:					
	900RTC-L010 Remote Terminal Low Voltage Cable Assembly, 1.0 meters long					
	900RTC-L025 Remote Terminal Low Voltage Cable Assembly, 2.5 meters long.					
	900RTC-L050 Remote Terminal Low Voltage Cable Assembly, 5.0 meters long					
	 Install Al module label onto the module connector cover. Connect shield drain wire to the grounding bars at the base of the HC900 rack. All field-wiring shields must be grounded as described in the shield grounding section of the HC900 Hybrid Controller Installation and User guide 51-52-25-107. 					
2	Mount RTP to DIN rail.					
	Latch to rail. See page 8.					
	Connect cable to RTP.					
3	Set DIP switch positions SW1 through SW8.					
	Set each input's DIP switch positions according to the input type. For Input n use Switch n. For example, for					
	Input 1 use Switch 1, for Input 2 use Switch 2, etc. If an input is not used, set its DIP switch positions to OFF.					
	SW9 1 1 2 SW1 1 2 SW2 1 2 SW4 1 2 SW6 1 2 SW6 1 2 SW8 Fuses: 80mA Time lag Wickmann part #3740080041 UL/CSA approved F1 F2 F3 F4 F5 F6 F7 F8 TB1					
	Volt, millivolt: Ohms: Transmitter: Loop powered					
	Milliamp: Externally powered RTD:					
	SW9 is the red power switch for 24 volt supply. Module RIUP is not affected by using the RTP.					
	See page 7 for RTP internal schematic.					

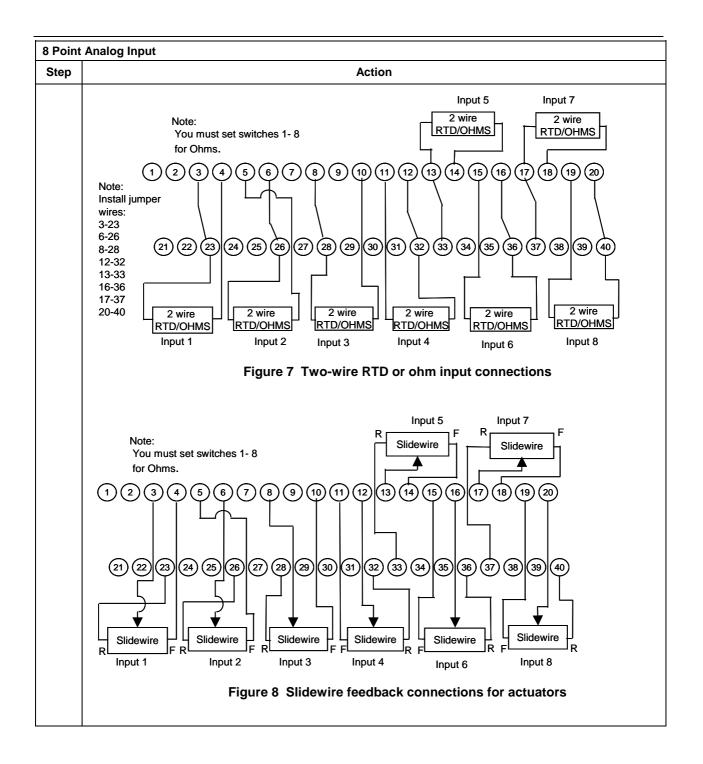
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RTP Cable wire positions and colors

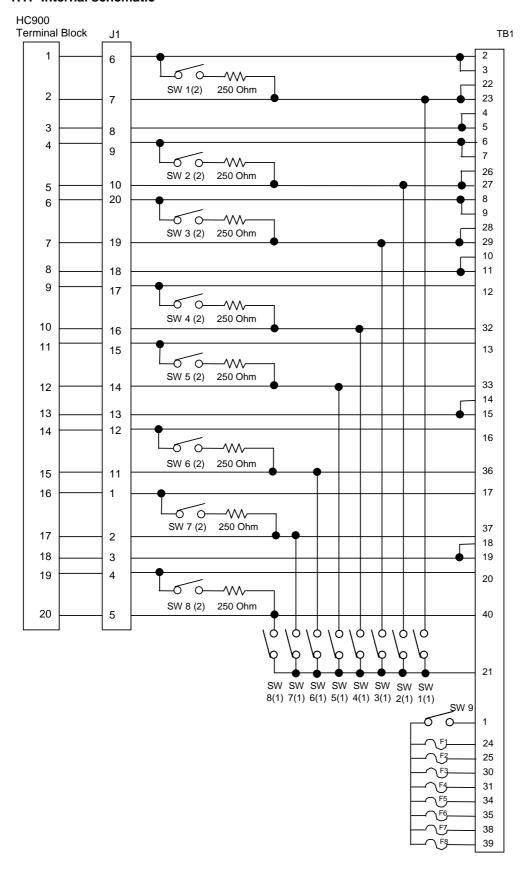
Twisted Pair Number	HC900 Module TB Position	RTP J1 Plug Connector	Color
1	1	6	Black
	2	7	Red
2	4	9	Black
	5	10	White
3	6	20	Black
	7	19	Green
4	9	17	Black
	10	16	Blue
5	11	15	Black
	12	14	Yellow
6	14	12	Black
	15	11	Brown
7	16	1	Black
	17	2	Orange
8	19	4	Red
	20	5	White
9	3	8	Red
	8	18	Green
10	13	13	Red
	18	3	Blue

Accuracy specification

Range	Al Module Accuracy	RTP + Cable Accuracy	Al Module + RTP Accuracy
100Ω Plat. RTD	±0.1% of Range	±0.04% Range (0.357°C)	±0.14% of Range
JIS RTD	±0.1% of Range	±0.12% Range (0.824°C)	±0.22% of Range
10Ω Cu. RTD	±0.1% of Range	±0.57% Range (1.540°C)	±0.67% of Range
200Ω OHMS	±0.1% of Range	±0.07% Range (0.140Ω)	±0.17% of Range
0-10mV LINEAR	±0.1% of Range	±0.04% Range (0.004mV)	±0.14% of Range

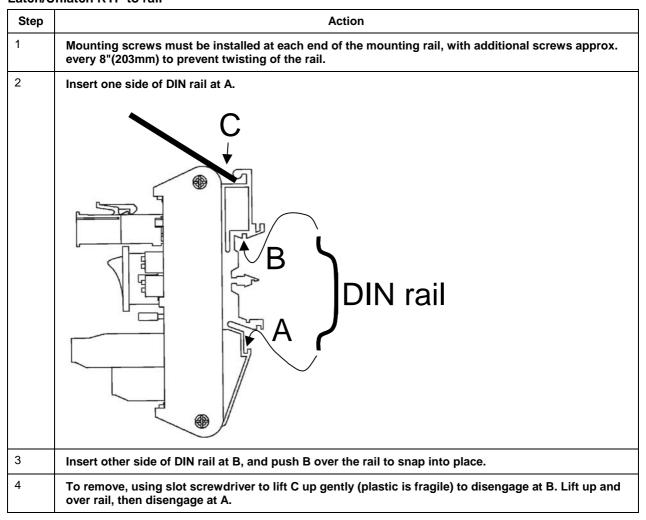
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RTP Internal schematic



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Latch/Unlatch RTP to rail



Warranty/Remedy

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While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application

