

Preliminary Components for cRIO Interlock System- Updated 6/2/2016

Item	Model Number	Description	Quantity	Unit Price	Total Cost
Controller	cRIO-9035	cRIO 9035 Controller and Chassis	1	\$ 3,499.00	\$ 3,499.00
Solid State Relay	NI 9485	8-Ch, ±60 VDC, 750 mA (60V Ch-Ch, 250Vrms Ch-Earth Isolated) SSR C Series Module	1	\$ 351.00	\$ 351.00
RTD Module	NI 9217	4-Ch PT100 RTD 24-bit, 100S/s/ch, Analog Input Module	2	\$ 568.00	\$ 1,136.00
Analog input	NI 9219	4 Ch-Ch Isolated, 24-bit, ±60V,100S/s Universal AI Module	1	\$ 1,098.00	\$ 1,098.00
ADC	NI 9239	4-Ch ±10 V, 50 kS/s/Ch, 24-bit, Ch-to-Ch Isolated AI Module	2	\$ 1,098.00	\$ 2,196.00
Serial Interface	NI 9871	4-Port RS422/RS485 Serial Module	1	\$ 655.00	\$ 655.00
Blanks	NI 9977	Blank cRIO modules	1	\$ 31.00	\$ 31.00
Power Supply	RHINO PSP05-DC24-5	Rhino DC-to-DC converter, 18-74 VDC input, 5 VDC output, 5A, 25 W	1	\$ 79.00	\$ 79.00
Power Supply	NI PS-16	Power supply, 24 VDC, 10A, 100-120/200-240 VAC Input	1	\$ 262.00	\$ 262.00
Rack Mount	—	NI Rack Mount Kit for cDAQ/cRIO	1	\$ 453.00	\$ 453.00
Rail kit	NI 9915	NI 9915 DIN Rail Mounting Kit for 8-slot cRIO/cDAQ Chassis	1	\$ 31.00	\$ 31.00
Fuse holder	HTT Series	HTT Series In-Line Fuse Holders	10	\$ 2.80	\$ 28.00
Temperature Sensor	RTD-3-F3105-36-T-B	Omega 4-wire RTDs, 5 pack	2	\$ 99.00	\$ 198.00
Humidity Sensor	HIH 4030/31	Honeywell humidity sensor	10	\$ 14.00	\$ 140.00
Air flow sensor		Sensor for interior detector airflow to be determined, example given to generate total cost	3	\$ 300.00	\$ 900.00
Key Switch	Allen Bradley 800T-H33B	Key switch to bypass power to allow cRIO to be rebooted without crashing power supplies	1	\$ 130.00	\$ 130.00
Wiring	EXTT-4CU-26S	Omega 100 ft spool of 4-wire extension wire for RTDs	1	\$ 123.00	\$ 123.00
Wiring	EXTT-3CU-26S	Omega 100 ft spool of 3-wire extension wires for Humidity Sensors	1	\$ 114.00	\$ 114.00
Cabling		Cabling for sensors and components to be determined, total cabling cost estimated	1	\$ 400.00	\$ 400.00
Ferrules		Ferrules needed for connections to be determined, total ferrule cost estimated	1	\$ 170.00	\$ 170.00
Connectors		Connectors needed to be determined, total connector cost estimated	1	\$ 160.00	\$ 160.00
PC	Dell T5810	Dell Precision Tower 5810 for LabVIEW development	1	\$ 1,659.22	\$ 1,659.22
PC monitor	ViewSonic VX2770SMH-LED	ViewSonic VX2770SMH-LED Black 27" Black IPS Panel Widescreen LED Backlight LCD Monitor	1	\$ 250.00	\$ 250.00
				Total	\$ 14,063.22