

40m Vacuum Acromag Channels

Acromag Wiring			EPICS Configuration			Chassis Feedthrough Wiring		
Unit	Signal Terminal	Return Terminal	Channel Name	Type	Signal Description	Connector	Signal Pin	Return Pin
XT1111a	I/O 00	RTN	C1:Vac-VIPEE_open	binary input	High when valve is fully open	DB-25F RB-EE	10	9
	I/O 01	RTN	C1:Vac-VIPEE_closed	binary input	High when valve is fully closed	DB-25F RB-EE	12	11
	I/O 02	RTN	C1:Vac-VIPEV_open	binary input	High when valve is fully open	DB-25F RB-EV	10	9
	I/O 03	RTN	C1:Vac-VIPEV_closed	binary input	High when valve is fully closed	DB-25F RB-EV	12	11
	I/O 04	RTN	C1:Vac-VIPSV_open	binary input	High when valve is fully open	DB-25F RB-SV	10	9
	I/O 05	RTN	C1:Vac-VIPSV_closed	binary input	High when valve is fully closed	DB-25F RB-SV	12	11
	I/O 06	RTN	C1:Vac-VIPSE_open	binary input	High when valve is fully open	DB-25F RB-SE	10	9
	I/O 07	RTN	C1:Vac-VIPSE_closed	binary input	High when valve is fully closed	DB-25F RB-SE	12	11
	I/O 08	RTN	C1:Vac-V1_open	binary input	High when valve is fully open	DB-9F V1	1	2
	I/O 09	RTN	C1:Vac-V1_closed	binary input	High when valve is fully closed	DB-9F V1	3	4
	I/O 10	RTN	C1:Vac-V3_open	binary input	High when valve is fully open	DB-9F V3	1	2
	I/O 11	RTN	C1:Vac-V3_closed	binary input	High when valve is fully closed	DB-9F V3	3	4
	I/O 12	RTN	C1:Vac-V4_open	binary input	High when valve is fully open	DB-9F V4	1	2
	I/O 13	RTN	C1:Vac-V4_closed	binary input	High when valve is fully closed	DB-9F V4	3	4
	I/O 14	RTN	C1:Vac-V5_open	binary input	High when valve is fully open	DB-9F V5	1	2
I/O 15	RTN	C1:Vac-V5_closed	binary input	High when valve is fully closed	DB-9F V5	3	4	
XT1111b	I/O 00	RTN	C1:Vac-V6_open	binary input	High when valve is fully open	DB-9F V6	1	2
	I/O 01	RTN	C1:Vac-V6_closed	binary input	High when valve is fully closed	DB-9F V6	3	4
	I/O 02	RTN	C1:Vac-V7_open	binary input	High when valve is fully open	DB-9F V7	1	2
	I/O 03	RTN	C1:Vac-V7_closed	binary input	High when valve is fully closed	DB-9F V7	3	4
	I/O 04	RTN	C1:Vac-VM1_open	binary input	High when valve is fully open	DB-9F VM1	1	2
	I/O 05	RTN	C1:Vac-VM1_closed	binary input	High when valve is fully closed	DB-9F VM1	3	4
	I/O 06	RTN	C1:Vac-VM2_open	binary input	High when valve is fully open	DB-9F VM2	1	2
	I/O 07	RTN	C1:Vac-VM2_closed	binary input	High when valve is fully closed	DB-9F VM2	3	4
	I/O 08	RTN	C1:Vac-VM3_open	binary input	High when valve is fully open	DB-9F VM3	1	2
	I/O 09	RTN	C1:Vac-VM3_closed	binary input	High when valve is fully closed	DB-9F VM3	3	4
	I/O 10	RTN	C1:Vac-VC1_open	binary input	High when valve is fully open	DB-9F VC1	1	2
	I/O 11	RTN	C1:Vac-VC1_closed	binary input	High when valve is fully closed	DB-9F VC1	3	4
	I/O 12	RTN	C1:Vac-VC2_open	binary input	High when valve is fully open	DB-9F VC2	1	2
	I/O 13	RTN	C1:Vac-VC2_closed	binary input	High when valve is fully closed	DB-9F VC2	3	4
	I/O 14	RTN	C1:Vac-VV1_open	binary input	High when valve is fully open	DB-9F VV1	1	2
I/O 15	RTN	C1:Vac-VV1_closed	binary input	High when valve is fully closed	DB-9F VV1	3	4	
XT1111c	I/O 00	RTN	C1:Vac-VA6_open	binary input	High when valve is fully open	DB-9F VA6	1	2
	I/O 01	RTN	C1:Vac-VA6_closed	binary input	High when valve is fully closed	DB-9F VA6	3	4
	I/O 02	RTN	C1:Vac-VAVSE_open	binary input	High when valve is fully open	DB-25F RB-SE	2	1
	I/O 03	RTN	C1:Vac-VAVSE_closed	binary input	High when valve is fully closed	DB-25F RB-SE	4	3
	I/O 04	RTN	C1:Vac-VASE_open	binary input	High when valve is fully open	DB-25F RB-SE	6	5
	I/O 05	RTN	C1:Vac-VASE_closed	binary input	High when valve is fully closed	DB-25F RB-SE	8	7
	I/O 06	RTN	C1:Vac-VAVSV_open	binary input	High when valve is fully open	DB-25F RB-SV	2	1
	I/O 07	RTN	C1:Vac-VAVSV_closed	binary input	High when valve is fully closed	DB-25F RB-SV	4	3
	I/O 08	RTN	C1:Vac-VASV_open	binary input	High when valve is fully open	DB-25F RB-SV	6	5
	I/O 09	RTN	C1:Vac-VASV_closed	binary input	High when valve is fully closed	DB-25F RB-SV	8	7
	I/O 10	RTN	C1:Vac-VABSSCO_open	binary input	High when valve is fully open	DB-25F RB-BS	2	1
	I/O 11	RTN	C1:Vac-VABSSCO_closed	binary input	High when valve is fully closed	DB-25F RB-BS	4	3
	I/O 12	RTN	C1:Vac-VABSSCI_open	binary input	High when valve is fully open	DB-25F RB-BS	6	5
	I/O 13	RTN	C1:Vac-VABSSCI_closed	binary input	High when valve is fully closed	DB-25F RB-BS	8	7
	I/O 14	RTN	C1:Vac-VAVBS_open	binary input	High when valve is fully open	DB-25F RB-BS	10	9
I/O 15	RTN	C1:Vac-VAVBS_closed	binary input	High when valve is fully closed	DB-25F RB-BS	12	11	
XT1111d	I/O 00	RTN	C1:Vac-VABS_open	binary input	High when valve is fully open	DB-25F RB-BS	14	13
	I/O 01	RTN	C1:Vac-VABS_closed	binary input	High when valve is fully closed	DB-25F RB-BS	16	15
	I/O 02	RTN	C1:Vac-VAVEV_open	binary input	High when valve is fully open	DB-25F RB-EV	2	1
	I/O 03	RTN	C1:Vac-VAVEV_closed	binary input	High when valve is fully closed	DB-25F RB-EV	4	3
	I/O 04	RTN	C1:Vac-VAEV_open	binary input	High when valve is fully open	DB-25F RB-EV	6	5
	I/O 05	RTN	C1:Vac-VAEV_closed	binary input	High when valve is fully closed	DB-25F RB-EV	8	7
	I/O 06	RTN	C1:Vac-VAVEE_open	binary input	High when valve is fully open	DB-25F RB-EE	2	1
	I/O 07	RTN	C1:Vac-VAVEE_closed	binary input	High when valve is fully closed	DB-25F RB-EE	4	3
	I/O 08	RTN	C1:Vac-VAEE_open	binary input	High when valve is fully open	DB-25F RB-EE	6	5
I/O 09	RTN	C1:Vac-VAEE_closed	binary input	High when valve is fully closed	DB-25F RB-EE	8	7	

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	I/O 10	RTN	C1:Vac-RV1_open	binary input	High when valve is fully open	DB-9F RV1	1	2
	I/O 11	RTN	C1:Vac-RV1_closed	binary input	High when valve is fully closed	DB-9F RV1	3	4
	I/O 12	RTN	C1:Vac-RV2_open	binary input	High when valve is fully open	DB-9F RV2	3	4
	I/O 13	RTN	C1:Vac-RV2_closed	binary input	High when valve is fully closed	DB-9F RV2	1	2
	I/O 14	RTN	unassigned					
	I/O 15	RTN	unassigned					
XT1111e	I/O 00	RTN	C1:Vac-TP1_acc	binary input	High when speed is accelerating	DB-37F TP1	19	37
	I/O 01	RTN	C1:Vac-TP1_norm	binary input	High when speed is at setpoint	DB-37F TP1	5	6
	I/O 02	RTN	C1:Vac-TP1_fail	binary input	High when pump is in failure mode	DB-37F TP1	1	20
	I/O 03	RTN	C1:Vac-TP1_ala	binary input	Low when warning is active	DB-37F TP1	13	14
	I/O 04	RTN	C1:Vac-TP1_rot	binary input	Low when pump motor is rotating	DB-37F TP1	10	11
	I/O 05	RTN	C1:Vac-CP1_off	binary input	High when temp. is above setpoint	DB-9F CP1	1	2
	I/O 06	RTN	C1:Vac-CP1_on	binary input	High when temp. is below setpoint	DB-9F CP1	3	4
	I/O 07	RTN	C1:Vac-RP1_mon	binary input	High when pump is ON	DB-9F RP	1	2
	I/O 08	RTN	C1:Vac-RP2_mon	binary input	High when pump is ON	DB-9F RP	3	4
	I/O 09	RTN	C1:Vac-RP3_mon	binary input	High when pump is ON	DB-9F RP	5	6
	I/O 10	RTN	unassigned					
	I/O 11	RTN	unassigned					
	I/O 12	RTN	unassigned					
	I/O 13	RTN	unassigned					
	I/O 14	RTN	unassigned					
I/O 15	RTN	unassigned						
XT1121a	I/O 00	RTN	C1:Vac-UIPEE_valve	binary output	High/low opens/closes valve	DB-9M RB-EE	6	5
	I/O 01	RTN	C1:Vac-UIPEV_valve	binary output	High/low opens/closes valve	DB-9M RB-EV	6	5
	I/O 02	RTN	C1:Vac-UIPSV_valve	binary output	High/low opens/closes valve	DB-9M RB-SV	6	5
	I/O 03	RTN	C1:Vac-UIPSE_valve	binary output	High/low opens/closes valve	DB-9M RB-SE	6	5
	I/O 04	RTN	C1:Vac-V1_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	2	1
	I/O 05	RTN	C1:Vac-V3_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	4	3
	I/O 06	RTN	C1:Vac-V4_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	26	25
	I/O 07	RTN	C1:Vac-V5_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	28	27
	I/O 08	RTN	C1:Vac-V6_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	6	5
	I/O 09	RTN	C1:Vac-V7_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	8	7
	I/O 10	RTN	C1:Vac-VM1_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	16	15
	I/O 11	RTN	C1:Vac-VM2_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	14	13
	I/O 12	RTN	C1:Vac-VM3_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	12	11
	I/O 13	RTN	C1:Vac-VC1_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	30	29
	I/O 14	RTN	C1:Vac-VC2_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	10	9
I/O 15	RTN	C1:Vac-VA6_valve	binary output	High/low opens/closes valve	DB-37M RB-MAIN	18	17	
XT1121b	I/O 00	RTN	C1:Vac-VAVSE_valve	binary output	High/low opens/closes valve	DB-9M RB-SE	2	1
	I/O 01	RTN	C1:Vac-VASE_valve	binary output	High/low opens/closes valve	DB-9M RB-SE	4	3
	I/O 02	RTN	C1:Vac-VAVSV_valve	binary output	High/low opens/closes valve	DB-9M RB-SV	2	1
	I/O 03	RTN	C1:Vac-VASV_valve	binary output	High/low opens/closes valve	DB-9M RB-SV	4	3
	I/O 04	RTN	C1:Vac-VABSSCO_valve	binary output	High/low opens/closes valve	DB-9M RB-BS	2	1
	I/O 05	RTN	C1:Vac-VABSSCI_valve	binary output	High/low opens/closes valve	DB-9M RB-BS	4	3
	I/O 06	RTN	C1:Vac-VAVBS_valve	binary output	High/low opens/closes valve	DB-9M RB-BS	6	5
	I/O 07	RTN	C1:Vac-VABS_valve	binary output	High/low opens/closes valve	DB-9M RB-BS	8	7
	I/O 08	RTN	C1:Vac-VAVEV_valve	binary output	High/low opens/closes valve	DB-9M RB-EV	2	1
	I/O 09	RTN	C1:Vac-VAEV_valve	binary output	High/low opens/closes valve	DB-9M RB-EV	4	3
	I/O 10	RTN	C1:Vac-VAVEE_valve	binary output	High/low opens/closes valve	DB-9M RB-EE	2	1
	I/O 11	RTN	C1:Vac-VAEE_valve	binary output	High/low opens/closes valve	DB-9M RB-EE	4	3
	I/O 12	RTN	C1:Vac-RP1_switch	binary output	High/low turns pump on/off	DB-37M RB-MAIN	20	19
	I/O 13	RTN	C1:Vac-RP2_switch	binary output	High/low turns pump on/off	DB-37M RB-MAIN	22	21
	I/O 14	RTN	C1:Vac-RP3_switch	binary output	High/low turns pump on/off	DB-37M RB-MAIN	24	23
I/O 15 (via relay)	RTN (via relay)	C1:Vac-TP1_switch	binary output	High/low turns pump on/off	DB-37F TP1	30 (via relay)	31 (via relay)	
XT1221a	IN 0+	IN 0- & DC-	C1:Vac-PTP3_voltage	analog input	Log pressure reading (torr)	DB-9F PTP3	1	6
	IN 1+	IN 1- & DC-	C1:Vac-PTP2_voltage	analog input	Log pressure reading (torr)	DB-9F PTP2	1	6
	IN 2+	IN 2- & DC-	C1:Vac-N2_pressure	analog input	Delivery line pressure reading (PSI)	DB-9F N2	1	6
	IN 3+	IN 3-	C1:Vac-TP1_rot	analog input	Rotation speed reading (rps)	DB-37F TP1	27	28
	IN 4+	IN 4-	C1:Vac-TP1_current	analog input	Current reading (A)	DB-37F TP1	22	23
	IN 5+	IN 5-	C1:Vac-N2T1_pressure	analog input	Tank 1 pressure reading (PSI)	DB-9F NSRC	1	2

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IN 6+	IN 6-	C1:Vac-N2T2_pressure	analog input	Tank 2 pressure reading (PSI)	DB-9F NSRC	3	4
IN 7+	IN 7-	unassigned					