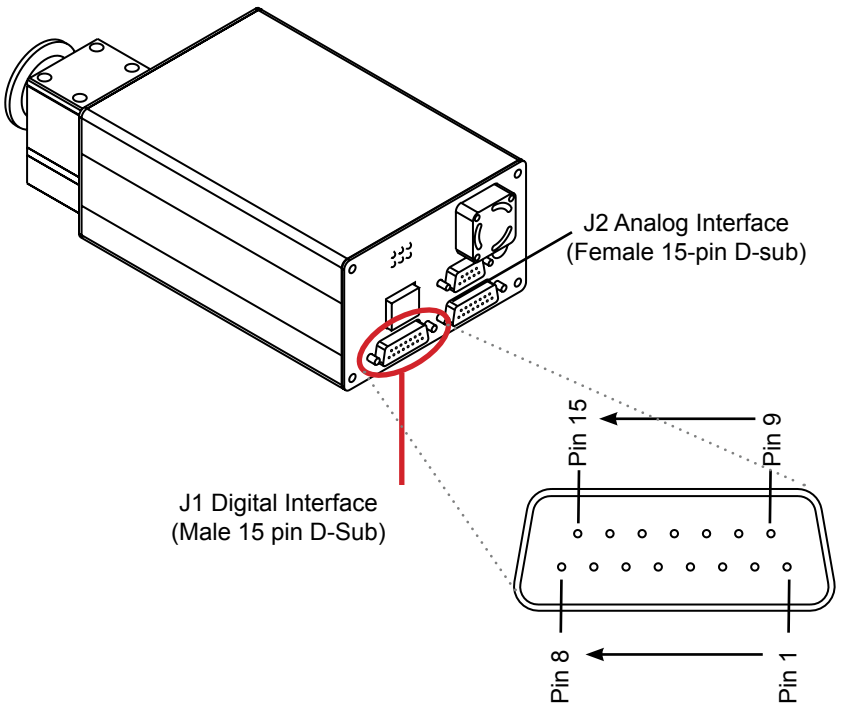
Verionix Gas Composition Sensor
Digital I-O Interface Specifications

PN 910008R10 (January 2009)

For All Verionix Gas Composition Analyzers with Digital/Analog I-O Interface



J1 Digital Interface Connector		
Pin #	*Input or Output?*	Signal
1		No Connection
2		No Connection
3	Output	User-defined (OD_3)
4	Output	User-defined (OD_1)
5	Input	User-defined (ID_0)
6	Input	User-defined (ID_2)
7		Connect to Digital Ground
8		Connect to Digital Ground
9		No Connection
10		No Connection
11	Output	User-defined (OD_2)
12	Output	User-defined (OD_0)
13	Input	User-defined (ID_1)
14	Input	User-defined (ID_3)
15		Connect to Digital Ground
ID_X =	Digital Input X into Script	
OD_Y =	Digital Output Y from Script	

Specifications

Electrical:	4 TTL-compatible inputs (0 to 5 VDC, NO, with 1k-Ω internal impedence) 4 TTL-compatible outputs (0 or 5 VDC, NO, with 1k-Ω internal impedence) All signal lines and associated grounds are electrically isolated from the sensor and meet ESD and transient voltage requirements per IEC1000-4-2 & IEC1000-4-4.
Mechanical:	15-pin D-sub (Male) connector used on sensor. 15-pin D-sub (Female) mating connector required.
Software Interface:	Input signals ID_0 to ID_3 are readable by the sensor. Output signals OD_0 to OD_3 are set by the sensor.
Notes:	• Connect all unused input signal lines to ground. • Make no connection to unused output signal lines. • To minimize noise, the Digital Interface Ground and the Analog Interface Grounds should be connected to separate external grounds.

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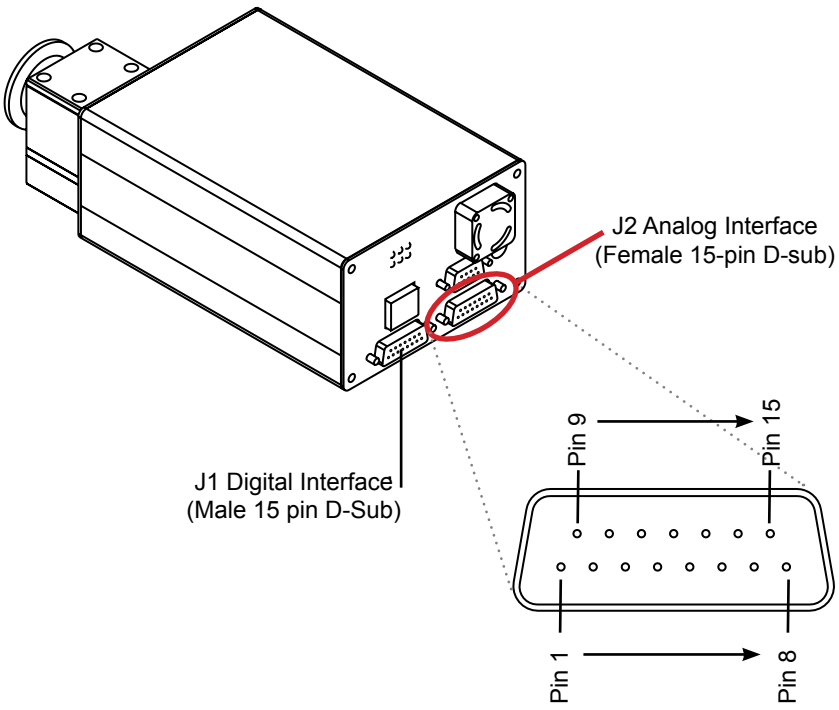
Verionix Gas Composition Sensor Analog I-O Interface Specifications

P/N 910008R10 (January 2009)

For All Verionix Gas Composition Analyzers with Digital/Analog I-O Interface



J2 Analog Interface Connector		
Pin #	*Input or Output?*	Signal
1		Connect to Analog Ground
2	Input	User-defined (IA_1)
3	Input	User-defined (IA_3)
4		Connect to Analog Ground
5	Output	User-defined (OA_3)
6	Output	User-defined (OA_2)
7	Output	User-defined (OA_0)
8		Connect to Analog Ground
9	Input	User-defined (IA_0)
10	Input	User-defined (IA_2)
11		Connect to Analog Ground
12		Connect to Analog Ground
13	Output	User-defined (OA_1)
14		No Connection
15		No Connection
	IA_X =	Analog Input X into Script
	OA_Y =	Analog Output Y from Script

Specifications

Electrical:	4 analog inputs (0 to 5 VDC, single-ended, 12-bits, ±25 VDC overvoltage limit). 4 analog outputs (0 to 4.1 VDC, 12-bits, ~ 1 millivolt/bit). All signal lines and associated grounds are electrically isolated from the sensor and meet ESD and transient voltage requirements per IEC1000-4-2 & IEC1000-4-4.
Mechanical:	15-pin D-sub (Female) connector used on sensor. 15-pin D-sub (Male) mating connector required.
Software Interface:	Input signals IA_0 to IA_3 are readable by the sensor. Output signals OA_0 to OA_3 are set by the sensor.
Notes:	• Analog outputs: Each sources/sinks ≤ 7.5 milliamp @ < 1Ω Output Impedance. • Connect all unused input lines to ground. • Make no connection to unused output signal lines. • To minimize noise, the Digital Interface ground and the Analog Interface grounds should be connected to separate external grounds.

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