

 SNC-LAVALIN	I/O LIST - PLC-G10	Document Code	112577-0116-48EL-0001
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Client City of Winnipeg			
Project SEWPCC Venitlation and Misc. Upgrades			
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Approved By	Name	Signature	Date
	C. Reimer		2012-10-15
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Revisions					
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00	Issued for Tender	2012-10-15	T. Church	C. Reimer	C. Reimer

Discrete Inputs

PLC	Slot	Point	Tag	Description	0 State	1 State	Notes
G10	1	0	G603-UL	G603-GP Ready	Not Ready	Ready	120 VAC relay in CP
G10	1	1	G603-MM	G603-GP Running	Not Running	Running	120 VAC relay in CP
G10	1	2	G605-UL	G605-GP Ready	Not Ready	Ready	120 VAC relay in CP
G10	1	3	G605-MM	G605-GP Running	Not Running	Running	120 VAC relay in CP
G10	1	4	G686-UL	G686-EF Ready	Not Ready	Ready	120 VAC relay in CP
G10	1	5	G686-MM	G686-EF Running	Not Running	Running	120 VAC relay in CP
G10	1	6	G686-ZSC	G686-EF Damper Closed	Not Closed	Closed	120 VAC relay in CP
G10	1	7	G686-ZSO	G686-EF Damper Open	Not Open	Open	120 VAC relay in CP
G10	1	8	G686-IS	G686-EF Motor Loaded	Not Loaded	Loaded	120 VAC relay in CP
G10	1	9		SPARE			120 VAC relay in CP
G10	1	10		SPARE			120 VAC relay in CP
G10	1	11		SPARE			120 VAC relay in CP
G10	1	12		SPARE			120 VAC relay in CP
G10	1	13		SPARE			120 VAC relay in CP
G10	1	14		SPARE			120 VAC relay in CP
G10	1	15		SPARE			120 VAC relay in CP
G10	1	16	G603-YS	G603-GP Auto Mode	Not Auto	Auto	
G10	1	17	G603-FSL	G603-GP No Flow	No Flow	Flow	
G10	1	18	G605-YS	G605-GP Auto Mode	Not Auto	Auto	
G10	1	19	G605-FSL	G605-GP No Flow	No Flow	Flow	
G10	1	20	G686-YS	G686-EF Auto Mode	Not Auto	Auto	
G10	1	21		SPARE			
G10	1	22		SPARE			
G10	1	23		SPARE			
G10	1	24		SPARE			
G10	1	25		SPARE			
G10	1	26		SPARE			
G10	1	27		SPARE			
G10	1	28		SPARE			
G10	1	29		SPARE			
G10	1	30		SPARE			
G10	1	31		SPARE			
G10	2	0	G601-YS	G601-SF Auto Mode	Not Auto	Auto	
G10	2	1	G601-UL	G601-SF Ready	Not Ready	Ready	
G10	2	2	G601-MM	G601-SF Running	Stopped	Running	
G10	2	3	G601-ZSC-1	G601-SF Inlet Damper Closed	Not Closed	Closed	
G10	2	4	G601-ZSO-1	G601-SF Inlet Damper Fully Open	Not Fully Open	Fully Open	
G10	2	5	G601-ZSC-2	G601-SF Outlet Damper Closed	Not Closed	Closed	
G10	2	6	G601-ZSO-2	G601-SF Outlet Damper Fully Open	Not Fully Open	Fully Open	
G10	2	7	G601-PDS	G601-SF Outdoor Air Filter Plugged	Not Plugged	Plugged	
G10	2	8	G602-YS	G602-SF Auto Mode	Not Auto	Auto	
G10	2	9	G602-UL	G602-SF Ready	Not Ready	Ready	
G10	2	10	G602-MM	G602-SF Running	Stopped	Running	
G10	2	11	G602-ZSC-1	G602-SF Inlet Damper Closed	Not Closed	Closed	
G10	2	12	G602-ZSO-1	G602-SF Inlet Damper Fully Open	Not Fully Open	Fully Open	
G10	2	13	G602-ZSC-2	G602-SF Discharge Damper Closed	Not Closed	Closed	
G10	2	14	G602-ZSO-2	G602-SF Discharge Damper Fully Open	Not Fully Open	Fully Open	
G10	2	15		SPARE			
G10	2	16		SPARE			
G10	2	17	G687-YS	G687-EF Auto Mode	Not Auto	Auto	
G10	2	18	G687-UL	G687-EF Ready	Not Ready	Ready	
G10	2	19	G687-MM	G687-EF Running	Stopped	Running	
G10	2	20	G687-ZSC	G687-EF Damper Closed	Not Closed	Closed	
G10	2	21	G687-ZSO	G687-EF Damper Fully Open	Not Fully Open	Fully Open	
G10	2	22	G606-YS	Wet Well Occupied Switch	Unoccupied	Occupied	
G10	2	23	G500-AA	Gas Detection Alarm	Okay	Alarm	
G10	2	24	G901-EL-1	LCP-G1 PS01 Power OK	Fail	Okay	
G10	2	25	G901-EL-2	LCP-G1 PS02 Power OK	Fail	Okay	
G10	2	26		SPARE			
G10	2	27		SPARE			
G10	2	28		SPARE			
G10	2	29		SPARE			
G10	2	30		SPARE			
G10	2	31		SPARE			

Discrete Outputs

PLC	Slot	Point	Tag	Description	0 State	1 State	Notes
G10	3	0	G603-MN	G603-GP Run Command	Stop	Run	Relay in CP
G10	3	1	G605-MN	G605-GP Run Command	Stop	Run	Relay in CP
G10	3	2	G686-MN	G686-EF Run Command	Stop	Run	Relay in CP
G10	3	3		SPARE			Relay in CP
G10	3	4		SPARE			Relay in CP
G10	3	5		SPARE			Relay in CP
G10	3	6		SPARE			Relay in CP
G10	3	7		SPARE			Relay in CP
G10	3	8	G601-MN	G601-SF Run Command	Stop	Run	
G10	3	9	G602-MN	G602-SF Run Command	Stop	Run	
G10	3	10	G687-MN	G687-EF Run Command	Stop	Run	
G10	3	11	G606-YL-1	Wet Well "Do Not Enter" Lamp	Off	On	
G10	3	12	G606-YL-2	Wet Well "Enter" Lamp	Off	On	
G10	3	13	G607-QA	Wet Well Ventilation Failure Signal	Okay	Alarm	
G10	3	14		SPARE			
G10	3	15		SPARE			

Analog Inputs

Rack	Slot	Point	Tag	Description	Type	EU Range	Notes
G10	4	0	G601-FT	G601-SF Air Flow	4-20 mA	0 - 1500 l/s	
G10	4	1	G601-TT-1	G601-SF Outdoor Air Temperature	4-20 mA	-40-40 °C	
G10	4	2	G603-TT-1	G601-SF Intermediate Temperature	4-20 mA	-40-40 °C	
G10	4	3	G603-TT-2	G603-HE Flushing Water Inlet Temperature	4-20 mA	-10-30 °C	
G10	4	4	G603-TT-3	G603-HE Flushing Water Discharge Temperature	4-20 mA	-10-30 °C	
G10	4	5	G605-TT	G601-SF Discharge Air Temperature	4-20 mA	-40-40 °C	
G10	4	6					
G10	4	7		SPARE			
G10	5	0	G602-FT	G602-SF Air Flow	4-20 mA	0-4000 l/s	
G10	5	1	G608-PDT	Wet Well Differential Pressure	4-20 mA	-250 - 250 Pa	
G10	5	2	G687-IT	G687-EF Motor Current	4-20 mA	0 - 10A	
G10	5	3		SPARE			
G10	5	4		SPARE			
G10	5	5		SPARE			
G10	5	6		SPARE			
G10	5	7		SPARE			

Analog Outputs

PLC	Slot	Point	Tag	Description	Type	EU Range	Notes
G10	6	0	G601-SY	G601-SF Speed Control	4-20 mA	0 - 100%	
G10	6	1	G603-TY	G603-HE Flushing Water Control Valve	4-20 mA	0 - 100%	
G10	6	2	G605-TY	G605-HE Hot Water Control Valve	4-20 mA	0 - 100%	
G10	6	3	G687-SY	G687-EF Speed Control	4-20 mA	0 - 100%	
G10	7	0	G602-SY	G602-SF Speed Control	4-20 mA	0 - 100%	
G10	7	1		SPARE			
G10	7	2		SPARE			
G10	7	3		SPARE			