




CONTROLLER: D939-GDC
 LOCATION: DIGESTER CONTROL ROOM
 MODEL: MSA GASGARD XL-8-0-0-0

INPUTS												
CHANNEL	DEVICE	DEVICE LOCATION	MEASURED GAS	RANGE	SENSOR	ALARM 1		ALARM 2		LOCATION DRAWING	LOOP DRAWING	NOTES
						LEVEL	CONFIG	LEVEL	CONFIG			
1	D939-AIT-1	EAST GAS ROOM METHANE - NORTH	COMBUSTIBLE-METHANE	0-100% LEL	ULTIMA XIR	10% LEL	LATCHED	10% LEL	LATCHED	1-0101D-A0113-003	1-0101D-A0123-001	
2	D939-AIT-2	EAST GAS ROOM METHANE - WEST	COMBUSTIBLE-METHANE	0-100% LEL	ULTIMA XIR	10% LEL	LATCHED	10% LEL	LATCHED	1-0101D-A0113-002 1-0101D-A0113-004	1-0101D-A0123-001	
3	D939-AIT-3	EAST GAS ROOM METHANE - CENTRAL	COMBUSTIBLE-METHANE	0-100% LEL	ULTIMA XIR	10% LEL	LATCHED	10% LEL	LATCHED	1-0101D-A0113-002	1-0101D-A0124-001	
4	D939-AIT-4	EAST GAS ROOM METHANE - EAST	COMBUSTIBLE-METHANE	0-100% LEL	ULTIMA XIR	10% LEL	LATCHED	10% LEL	LATCHED	1-0101D-A0113-004	1-0101D-A0124-001	
5	D939-AIT-5	EAST GAS ROOM METHANE - SOUTH	COMBUSTIBLE-METHANE	0-100% LEL	ULTIMA XIR	10% LEL	LATCHED	10% LEL	LATCHED	1-0101D-A0113-003	1-0101D-A0125-001	
6	D939-AIT-6	EAST GAS ROOM METHANE - PENTHOUSE	COMBUSTIBLE-METHANE	0-100% LEL	ULTIMA XIR	10% LEL	LATCHED	10% LEL	LATCHED	1-0101D-A0114-001	1-0101D-A0125-001	
7		SPARE										
8		SPARE										

OUTPUTS														
RELAY	DEVICE	DESCRIPTION	RELAY STATUS	VOTING	CHANNELS								LOOP DAWING	NOTES
					1	2	3	4	5	6	7	8		
ALARM 1	-	GAS ALARM TO DCS	NORMALLY ENERGIZED	FIXED	ALL								1-0101D-A0127-001	
ALARM 2	-	FORCE START OF VENTILATION FANS	NORMALLY ENERGIZED	FIXED	ALL								1-0101D-A0126-001	
HORN 1	-	STROBES AND SIRENS	NORMALLY ENERGIZED	1:6	A1, A2	A1, A2	A1, A2	A1, A2	A1, A2	A1, A2			1-0101D-A0126-001 1-0101D-A0126-002	
HORN 2	-	SPARE	NORMALLY ENERGIZED	1:6	A1, A2	A1, A2	A1, A2	A1, A2	A1, A2	A1, A2				
FAULT	-	TROUBLE ALARM TO DCS	NORMALLY ENERGIZED	FIXED	ALL								1-0101D-A0127-001	

 ENGINEERS GEOSCIENTISTS MANITOBA Certificate of Authorization CENGYS Ltd. No. 6983						ENGINEER'S SEAL	 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT								
	DESIGNED BY: C. REIMER		CHECKED BY: C. REIMER		NORTH END SEWAGE TREATMENT PLANT DIGESTERS GAS DETECTION SCHEDULE D939-GDC EAST GAS ROOM										
	DRAWN BY: S. FUNK		APPROVED BY: C. REIMER												
	SCALE: NTS		DATE: 2019-06-02												
	ISSUED FOR CONSTRUCTION BY: K. SCHIMKE		DATE: 2019-08-01												
BID OPPORTUNITY NO.:		630-2019		CITY DRAWING NUMBER		SHEET		REV.		SIZE					
00 ISSUED FOR CONSTRUCTION		2019-08-01		CJR		CJR		1-0101D-A0122		001		00		B	
NO. REVISIONS		DATE		DESIGN		CHECK									