

**INSTRUMENT SPECIFICATION SHEET - COMBUSTIBLE GAS MONITORS**

GENERAL DATA	1	INSTRUMENT TAG NUMBER				
	2	SERVICE				
	3	P&ID NUMBER				
	4	MANUFACTURER	<b>Detcon</b>			
	5	MATERIAL SOURCE				
	6					
	7					
PROCESS DATA	8	GAS(ES) TO BE DETECTED	<b>Combustible</b>			
	9					
	10	CONTAMINANT AND / OR CORROSIVE GASES				
SENSOR DATA	11	SENSOR TAG NUMBER				
	12	MODEL NUMBER	<b>IR-622</b>			
	13	SENSOR TYPE	<b>NDIR</b>			
	14	NUMBER OF SENSORS	<b>1</b>			
	15	SENSOR HOUSING MATERIAL	<b>SS</b>			
	16	CALIBRATED RANGE	<b>0-100% LEL</b>			
TRANSMITTER	17	TRANSMITTER TAG NUMBER				
	18	MODEL NUMBER	<b>IR-622</b>			
	19	HOUSING NEMA (OR EQUIVALENT) RATING	<b>NEMA 7/4X</b>			
	20	HOUSING MATERIAL	<b>Note 1</b>			
	21	CONDUIT CONNECTION SIZE	<b>3/4" NPT</b>			
	22	OUTPUT SIGNAL, RANGE mA	<b>4-20 mA DC</b>			
	23	MAXIMUM LOOP LOAD, OHMS (@ 24 VDC)	<b>1000 ohms</b>			
	24	OUTPUT SIGNAL, CABLE LENGTH				
	25	SENSOR REPLACEABLE UNDER POWER	<b>YES</b>			
	26	POWER SUPPLY	<b>22.5-28 VDC</b>			
CONTROLLER UNIT	27	DIGITAL DISPLAY	<b>YES</b>			
	28	CONTROL UNIT REQUIRED	<b>NO</b>			
	29	CONTROL UNIT TAG NUMBER				
	30	MODEL NUMBER				
	31	NUMBER OF CHANNELS				
	32	NUMBER OF MULTI-CHANNEL RACKS				
	33	LOCATION				
	34	MOUNTING				
	35	HOUSING NEMA (OR EQUIVALENT) RATING				
	36	POWER SUPPLY				
	37	INTEGRAL LOGIC AND LOOP POWER				
	MISC	38	WARNING ALARM: LATCHING / UNLATCHING	<b>Note 2</b>		
39		WARNING ALARM SETPOINT, IN MEASUREMENT UNITS	<b>Note 2</b>			
40		CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS	<b>Note 2</b>			
41		CRITICAL ALARM: LATCHING / UNLATCHING	<b>Note 2</b>			
42		ELECTRICAL AREA CLASSIFICATION	<b>Class I Division 1 Groups B,C,D</b>			

**NOTES:**

- 1) Standard Housing Material: Aluminum with epoxy baked finish, Optional: 316 SS
- 2) Alarm relays (2) are field programmable for Latching/Unlatching and Alarm Setpoint; 1 fault relay
- 3) Warranty: Sensor - 5-year conditional, Transmitter - 2-year w/ 5-year fixed fee repair
- 4) Operating Temp. -40°C to +75°C, Operating Humidity 0% to 99% RH non-condensing
- 5) Accuracy/Repeatability is ± 3.0% of Full Scale 0-50% LEL, ±5.0% of Full Scale 50-100% LEL
- 6) Response Time: T50 < 10 seconds, T90 < 30 seconds
- 7) Sensor outputs include 4-20 mA , alarm relays (2 w/ LED), fault relay and RS-485 (Modbus RTU)
- 8) Plug-in, field replaceable sensor element and transmitter
- 9) Microprocessor-controlled, self-diagnostic transmitter electronics with local Fault LED