

INSTRUMENT SPECIFICATION SHEET - CARBON DIOXIDE GAS MONITORS

GENERAL DATA	1	INSTRUMENT TAG NUMBER			
	2	SERVICE			
	3	P&ID NUMBER			
	4	MANUFACTURER	Detcon		
	5	MATERIAL SOURCE			
	6				
	7				
PROCESS DATA	8	GAS(ES) TO BE DETECTED	Carbon Dioxide		
	9				
	10	CONTAMINANT AND / OR CORROSIVE GASES			
SENSOR DATA	11	SENSOR TAG NUMBER			
	12	MODEL NUMBER	IR-640		
	13	SENSOR TYPE	NDIR		
	14	NUMBER OF SENSORS	1		
	15	SENSOR HOUSING MATERIAL	SS		
	16	CALIBRATED RANGE	0-.3% / 0-1% / 0-3% / 0-5% By Volume		
TRANSMITTER	17	TRANSMITTER TAG NUMBER			
	18	MODEL NUMBER	IR-640		
	19	HOUSING NEMA (OR EQUIVALENT) RATING	NEMA 7/4X		
	20	HOUSING MATERIAL	Note 1		
	21	CONDUIT CONNECTION SIZE	3/4" NPT		
	22	OUTPUT SIGNAL, RANGE mA	4-20 mA DC		
	23	MAXIMUM LOOP LOAD, OHMS (@ 24 VDC)	1000 ohms		
	24	OUTPUT SIGNAL, CABLE LENGTH			
	25	SENSOR REPLACEABLE UNDER POWER	YES		
	26	POWER SUPPLY	22.5-28 VDC		
	27	DIGITAL DISPLAY	YES		
CONTROLLER UNIT	28	CONTROL UNIT REQUIRED	NO		
	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			
	38	WARNING ALARM: LATCHING / UNLATCHING	Note 2		
	39	WARNING ALARM SETPOINT, IN MEASUREMENT UNITS	Note 2		
	40	CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS	Note 2		
MISC	41	CRITICAL ALARM: LATCHING / UNLATCHING	Note 2		
	42	ELECTRICAL AREA CLASSIFICATION	Class I Division 1 Groups B,C,D		

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 ± 5.0% of Full Scale
- 6) Response Time: T50 < 15 seconds, T90 < 40 seconds
- 7) Plug-in, field replaceable sensor element and transmitter
- 8) Sensor outputs include 4-20 mA , alarm relays (2 w/ LED), fault relay and RS-485 (Modbus RTU)
- 8) Microprocessor-controlled, self-diagnostic transmitter electronics with local Fault LED