

**INSTRUMENT SPECIFICATION SHEET - HYDROGEN SULFIDE 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>H2S</b>		
	9				
	10	CONTAMINANT AND / OR CORROSIVE GASES			
SENSOR DATA	11	SENSOR TAG NUMBER			
	12	MODEL NUMBER	<b>TP-524D</b>		
	13	SENSOR TYPE	<b>Solid State (MOS)</b>		
	14	NUMBER OF SENSORS	<b>1</b>		
	15	SENSOR HOUSING MATERIAL	<b>316SS</b>		
	16	CALIBRATED RANGE	<b>0-20/50/100ppm</b>		
TRANSMITTER	17	TRANSMITTER TAG NUMBER			
	18	MODEL NUMBER	<b>TP-524D</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>	<b>HART</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>11.5-28 VDC</b>		
	27	DIGITAL DISPLAY	<b>YES</b>		
CONTROLLER UNIT	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			
	38	WARNING ALARM: LATCHING / UNLATCHING			
	39	WARNING ALARM SETPOINT, IN MEASUREMENT UNITS			
	40	CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS			
	MISC	41	CRITICAL ALARM: LATCHING / UNLATCHING		
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) Warranty: Sensor - 10-year conditional, Transmitter - 2-year w/ 5-year fixed fee repair
- 3) Operating Temp. -40°C to +75°C, Operating Humidity 5% to 100% RH non-condensing
- 4) Accuracy/Repeatability is the greater of: ±10.0% of reading or ±2ppm
- 5) Response Time: T50 < 30 seconds, T80 < 60 seconds
- 6) Plug-in, field replaceable sensor element and transmitter
- 7) Microprocessor-controlled, self-diagnostic transmitter electronics with local Fault LED
- 8) 4-20mA = 0-100% FS, 0mA = Fault, 2mA = In Cal, 22mA = Over-Range
- 9) Performance Certified to ISA 92.0.01 Part I-1998: Performance Requirements for H2S