DETCON, INC. Rev No. 0 Date: 12/11/09

INSTRUMENT SPECIFICATION SHEET - VOLATILE ORGANIC COMPOUND (VOC) 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	**Volatile Organic Compounds**			
	9					
	10	CONTAMINANT AND / OR CORROSIVE GASES				
SENSOR DATA	11	SENSOR TAG NUMBER				
	12	MODEL NUMBER	**PI-700-VOC**			
	13	SENSOR TYPE	**Photo Ionization Detector - PID (plug-in)**			
	14	NUMBER OF SENSORS	**1**			
	15	SENSOR/TRANSMITTER HOUSING MATERIAL	**Electropolished 316SS**			
	16	CALIBRATED RANGE	**0-10 ppm**			
TRANSMITTER	17	TRANSMITTER TAG NUMBER				
	18	MODEL NUMBER	**PI-700-VOC**			
	19	HOUSING NEMA (OR EQUIVALENT) RATING	**NEMA 7/4X**			
	20	ELECTRONICS ENVIRONMENTAL PROTECTION METHOD	**100% Epoxy Encapsulation**			
	21	SENSOR/TRANSMITTER HOUSING MATERIAL	**Electropolished 316SS**			
	22	TERMINAL JUNCTION BOX MATERIAL	**NOTE 1**			
	23	TERMINAL JUNCTION BOX CONDUIT CONNECTION	**3/4" NPTF - NOTE 8**			
	24	OUTPUT SIGNAL, RANGE mA	**4-20 mA DC - NOTE 9**			
	25	DIGITAL OUTPUT SIGNAL	**RS-485 Modbus RTU**			
	26	MAXIMUM 4-20 LOOP LOAD, OHMS (@ 24 VDC)	**1000 ohms**			
	27	4-20 OUTPUT SIGNAL, CABLE LENGTH (@ 24 VDC)	**1.29 mm wire = 33,000 m**			
	28	SENSOR REPLACEABLE UNDER POWER	**YES**			
	29	POWER SUPPLY	**10-30 VDC**			
	30	DIGITAL DISPLAY	**LED Alpha Numeric**			
CONTROLLER UNIT	31	CONTROL UNIT REQUIRED	**NO**			
	32	CONTROL UNIT TAG NUMBER				
	33	MODEL NUMBER				
	34	NUMBER OF CHANNELS				
	35	NUMBER OF MULTI-CHANNEL RACKS				
	36	LOCATION				
	37	MOUNTING				
	38	HOUSING NEMA (OR EQUIVALENT) RATING				
	39	POWER SUPPLY				
	40	INTEGRAL LOGIC AND LOOP POWER				
	41	WARNING ALARM: LATCHING / UNLATCHING				
	42	WARNING ALARM SETPOINT, IN MEASUREMENT UNITS				
	43	CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS				
MISC	43	CRITICAL ALARM: LATCHING / UNLATCHING				
	44	ELECTRICAL AREA CLASSIFICATION	**NRTL Class I Div.1 Group BCD** **ATEX Class I Zone 1 Group IIC**			

1) Standard Junction Box Offered as an Option: Electropolished 316 SS or Aluminum with epoxy paint finish
2) Warranty: Plug-in Sensor Element - 1-Year, Intelligent Transmitter Module - 2 year
3) Operating Temp. -20°C to +50°C, Operating Humidity 0% to 100% non-condensing
4) Accuracy/Repeatability is +/- 10% of Reading, +/- 2.5% of range (greater of)
5) Response Time: T50 < 10 seconds, T90 < 30 seconds
6) Microprocessor-controlled, self-diagnostic transmitter electronics with full-script LED display
7) Pre-emptive fault diagnostics including input voltage, output signal, sensor integrity, transmitter integrity, operating temperature
8) Optional sizes on request: 20 mm or 1/2" NPT
9) 4-20 mA = 0-100% FS, 0 mA = Fault, 2 mA = In-Cal, 22 mA = Over-Range