

**INSTRUMENT SPECIFICATION SHEET - NITROGEN DIOXIDE 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>NO2</b>		
	9				
	10	CONTAMINANT AND / OR CORROSIVE GASES			
SENSOR DATA	11	SENSOR TAG NUMBER			
	12	MODEL NUMBER	<b>DM-100-NO2</b>		
	13	SENSOR TYPE	<b>Electrochemical Cell</b>		
	14	NUMBER OF SENSORS	<b>1</b>		
	15	SENSOR/TRANSMITTER HOUSING MATERIAL	<b>Electropolished 316SS</b>		
	16	CALIBRATED RANGE	<b>0-10 PPM</b>		
TRANSMITTER	17	MODEL NUMBER	<b>DM-100-NO2</b>		
	18	HOUSING NEMA (OR EQUIVALENT) RATING	<b>NEMA 7/4X</b>		
	19	ELECTRONICS ENVIRONMENTAL PROTECTION METHOD	<b>100% Epoxy Encapsulation</b>		
	20	SENSOR/TRANSMITTER HOUSING MATERIAL	<b>Electropolished 316SS</b>		
	21	TERMINAL JUNCTION BOX MATERIAL	<b>NOTE 1</b>		
	22	TERMINAL JUNCTION BOX CONDUIT CONNECTION	<b>3/4" NPTF - NOTE 7</b>		
	23	OUTPUT SIGNAL, RANGE mA	<b>4-20 mA DC - NOTE 8</b>		
	24	DIGITAL OUTPUT SIGNAL			
	25	MAXIMUM 4-20 LOOP LOAD, OHMS (@ 24 VDC)	<b>800 ohms</b>		
	26	4-20 OUTPUT SIGNAL, CABLE LENGTH (@ 24 VDC)			
	27	SENSOR REPLACEABLE UNDER POWER	<b>YES</b>		
	28	POWER SUPPLY	<b>10-30 VDC</b>		
	29	DIGITAL DISPLAY	<b>none</b>		
CONTROLLER UNIT	30	CONTROL UNIT REQUIRED	<b>NO</b>		
	31	CONTROL UNIT TAG NUMBER			
	32	MODEL NUMBER			
	33	NUMBER OF CHANNELS			
	34	NUMBER OF MULTI-CHANNEL RACKS			
	35	LOCATION			
	36	MOUNTING			
	37	HOUSING NEMA (OR EQUIVALENT) RATING			
	38	POWER SUPPLY			
	39	INTEGRAL LOGIC AND LOOP POWER			
	40	WARNING ALARM: LATCHING / UNLATCHING			
	41	WARNING ALARM SETPOINT, IN MEASUREMENT UNITS			
	42	CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS			
	MISC	43	CRITICAL ALARM: LATCHING / UNLATCHING		
44		ELECTRICAL AREA CLASSIFICATION	<b>Class I Div.1 Group BCD (w/ XP Conduit) Class 1 Div.1 Group ABCD (w IS barrier) Class I Zone 1 Group IIC (w/ XP Conduit) Class 1 Zone 1 Group IIC (w/ IS barrier)</b>		

- 1) Standard Junction Box Offered as an Option: Electropolished 316 SS or Aluminum with epoxy paint finish
- 2) Warranty: Plug-in Sensor Element - 2 years, Intelligent Transmitter Module - 2 year.
- 3) Operating Temp. -20°C to +50°C, Operating Humidity 15% to 90% RH non-condensing
- 4) Accuracy/Repeatability is +/- 2% of Full Scale
- 5) Response Time: T90 <40 seconds
- 6) Pre-emptive fault diagnostics including input voltage, output signal, sensor integrity, transmitter integrity, operating temperature
- 7) Optional sizes on request: 20 mm or 1/2" NPT
- 8) 4-20 mA = 0-100% FS, 1 mA = Fault, 2 mA = In-Cal, 22 mA = Over-Range
- 9) Intrinsically-safe barrier design, no flame arrestor required, direct sample gas contact