

INSTRUMENT SPECIFICATION SHEET - OXYGEN 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	Oxygen		
	9				
SENSOR DATA	10	CONTAMINANT AND / OR CORROSIVE GASES			
	11	SENSOR TAG NUMBER			
	12	MODEL NUMBER	DM-700-02		
	13	SENSOR TYPE	Galvanic Metal Air Battery (plug-in)		
	14	NUMBER OF SENSORS	1		
	15	SENSOR/TRANSMITTER HOUSING MATERIAL	Electropolished 316SS		
TRANSMITTER	16	CALIBRATED RANGE	0-25%		
	17	TRANSMITTER TAG NUMBER			
	18	MODEL NUMBER	DM-700-02		
	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		
	CONTROLLER UNIT	28	SENSOR REPLACEABLE UNDER POWER	YES	
29		POWER SUPPLY	10-30 VDC		
30		DIGITAL DISPLAY	LED Alpha Numeric		
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 - 2 year, Intelligent Transmitter Module - 2 year
- 3) Operating Temp. -20°C to +50°C, Operating Humidity 0% to 99% RH non-condensing
- 4) Accuracy/Repeatability is +/- 2% of Full Scale
- 5) Response Time: T90 < 20 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
- 10) Intrinsically-safe barrier design, no flame arrestor required, direct sample gas contact