

INSTRUMENT SPECIFICATION SHEET - NITROGEN DIOXIDE GAS MONITORS

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|-----------------|------|---|--|--|--|
| 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 | NO2 | | |
| | 9 | | | | |
| | 10 | CONTAMINANT AND / OR CORROSIVE GASES | | | |
| SENSOR DATA | 11 | SENSOR TAG NUMBER | | | |
| | 12 | MODEL NUMBER | DM-100-NO2 | | |
| | 13 | SENSOR TYPE | Electrochemical Cell | | |
| | 14 | NUMBER OF SENSORS | 1 | | |
| | 15 | SENSOR/TRANSMITTER HOUSING MATERIAL | Electropolished 316SS | | |
| | 16 | CALIBRATED RANGE | 0-10 PPM | | |
| TRANSMITTER | 17 | MODEL NUMBER | DM-100-NO2 | | |
| | 18 | HOUSING NEMA (OR EQUIVALENT) RATING | NEMA 7/4X | | |
| | 19 | ELECTRONICS ENVIRONMENTAL PROTECTION METHOD | 100% Epoxy Encapsulation | | |
| | 20 | SENSOR/TRANSMITTER HOUSING MATERIAL | Electropolished 316SS | | |
| | 21 | TERMINAL JUNCTION BOX MATERIAL | NOTE 1 | | |
| | 22 | TERMINAL JUNCTION BOX CONDUIT CONNECTION | 3/4" NPTF - NOTE 7 | | |
| | 23 | OUTPUT SIGNAL, RANGE mA | 4-20 mA DC - NOTE 8 | | |
| | 24 | DIGITAL OUTPUT SIGNAL | | | |
| | 25 | MAXIMUM 4-20 LOOP LOAD, OHMS (@ 24 VDC) | 800 ohms | | |
| | 26 | 4-20 OUTPUT SIGNAL, CABLE LENGTH (@ 24 VDC) | | | |
| | 27 | SENSOR REPLACEABLE UNDER POWER | YES | | |
| | 28 | POWER SUPPLY | 10-30 VDC | | |
| | 29 | DIGITAL DISPLAY | none | | |
| CONTROLLER UNIT | 30 | CONTROL UNIT REQUIRED | NO | | |
| | 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 | 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) | | |

- 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