

INSTRUMENT SPECIFICATION SHEET - HYDROGEN 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 | H2 | | |
| | 9 | | | | |
| | 10 | CONTAMINANT AND / OR CORROSIVE GASES | | | |
| SENSOR DATA | 11 | SENSOR TAG NUMBER | | | |
| | 12 | MODEL NUMBER | DM-700-H2 | | |
| | 13 | SENSOR TYPE | Electrochemical Cell (intelligent plug-in) - NOTE 11 | | |
| | 14 | NUMBER OF SENSORS | 1 | | |
| | 15 | SENSOR/TRANSMITTER HOUSING MATERIAL | Electropolished 316SS | | |
| | 16 | CALIBRATED RANGE | 0-100 PPM | | |
| TRANSMITTER | 17 | MODEL NUMBER | DM-700-H2 | | |
| | 18 | TRANSMITTER ELECTRONICS MODULE | UNIVERSAL DESIGN - NOTE 12 | | |
| | 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 | | |
| | CONTROLLER UNIT | 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 15% to 90% RH non-condensing
- 4) Accuracy/Repeatability is +/- 2% of Full Scale
- 5) Response Time: 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
- 10) Intrinsically-safe barrier design, no flame arrestor required, direct sample gas contact
- 11) Plug-in sensor contains smart digital interface, allows for seamless interchangeability between transmitter modules
- 12) Intelligent Transmitter Module is universal, adapts to any sensor type/range. Supports in-situ range change