

**INSTRUMENT SPECIFICATION SHEET - COMBUSTIBLE 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>Combustible</b>                         |             |  |
|                 | 9  |                                               |                                            |             |  |
|                 | 10 | CONTAMINANT AND / OR CORROSIVE GASES          |                                            |             |  |
| SENSOR DATA     | 11 | SENSOR TAG NUMBER                             |                                            |             |  |
|                 | 12 | MODEL NUMBER                                  | <b>FP-524D</b>                             |             |  |
|                 | 13 | SENSOR TYPE                                   | <b>Catalytic Bead</b>                      |             |  |
|                 | 14 | NUMBER OF SENSORS                             | <b>1</b>                                   |             |  |
|                 | 15 | SENSOR HOUSING MATERIAL                       | <b>316SS</b>                               |             |  |
|                 | 16 | CALIBRATED RANGE                              | <b>0-100% LEL</b>                          |             |  |
| TRANSMITTER     | 17 | TRANSMITTER TAG NUMBER                        |                                            |             |  |
|                 | 18 | MODEL NUMBER                                  | <b>FP-524D</b>                             |             |  |
|                 | 19 | HOUSING NEMA (OR EQUIVALENT) RATING           | <b>NEMA 7/4X (IP66)</b>                    |             |  |
|                 | 20 | HOUSING MATERIAL                              | <b>Note 1</b>                              |             |  |
|                 | 21 | CONDUIT CONNECTION SIZE                       | <b>3/4" NPT</b>                            |             |  |
|                 | 22 | OUTPUT SIGNAL, RANGE mA                       | <b>4-20 mA DC</b>                          | <b>HART</b> |  |
|                 | 23 | MAXIMUM LOOP LOAD, OHMS (@ 24 VDC)            | <b>1000 ohms</b>                           |             |  |
|                 | 24 | OUTPUT SIGNAL, CABLE LENGTH                   |                                            |             |  |
|                 | 25 | SENSOR REPLACEABLE UNDER POWER                | <b>YES</b>                                 |             |  |
|                 | 26 | POWER SUPPLY                                  | <b>11.5-28 VDC</b>                         |             |  |
|                 | 27 | DIGITAL DISPLAY                               | <b>YES</b>                                 |             |  |
| CONTROLLER UNIT | 28 | CONTROL UNIT REQUIRED                         | <b>NO</b>                                  |             |  |
|                 | 29 | CONTROL UNIT TAG NUMBER                       |                                            |             |  |
|                 | 30 | MODEL NUMBER                                  |                                            |             |  |
|                 | 31 | NUMBER OF CHANNELS                            |                                            |             |  |
|                 | 32 | NUMBER OF MULTI-CHANNEL RACKS                 |                                            |             |  |
|                 | 33 | LOCATION                                      |                                            |             |  |
|                 | 34 | MOUNTING                                      |                                            |             |  |
|                 | 35 | HOUSING NEMA (OR EQUIVALENT) RATING           |                                            |             |  |
|                 | 36 | POWER SUPPLY                                  |                                            |             |  |
|                 | 37 | INTEGRAL LOGIC AND LOOP POWER                 |                                            |             |  |
|                 | 38 | WARNING ALARM: LATCHING / UNLATCHING          |                                            |             |  |
|                 | 39 | WARNING ALARM SETPOINT, IN MEASUREMENT UNITS  |                                            |             |  |
|                 | 40 | CRITICAL ALARM SETPOINT, IN MEASUREMENT UNITS |                                            |             |  |
| MISC            | 41 | CRITICAL ALARM: LATCHING / UNLATCHING         |                                            |             |  |
|                 | 42 | ELECTRICAL AREA CLASSIFICATION                | <b>Class I Division 1<br/>Groups B,C,D</b> |             |  |

**NOTES:**

- 1) Standard Housing Material: Aluminum with epoxy baked finish, Optional: 316 SS
- 2) Warranty: Sensor - 2-year, Transmitter - 2-year w/ 5-year fixed fee repair
- 3) Operating Temp. -40°C to +75°C, Operating Humidity 0% to 99% RH non-condensing
- 4) Accuracy/Repeatability is  $\pm 3.0\%$  of Full Scale 0-50% LEL,  $\pm 5.0\%$  of Full Scale 50-100% LEL
- 5) Response Time: T50 < 10 seconds, T90 < 30 seconds
- 6) Plug-in, field replaceable sensor element and transmitter
- 7) Microprocessor-controlled, self-diagnostic transmitter electronics with local Fault LED
- 8) 4-20mA = 0-100% FS, 0mA = Fault, 2mA = In Cal, 22mA = Over-Range