

**INSTRUMENT SPECIFICATION SHEET - HYDROGEN SULFIDE 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>H2S</b>                                 |             |  |
|                 | 9    |   |  |             |  |
|                 | 10   | CONTAMINANT AND / OR CORROSIVE GASES          |  |             |  |
| SENSOR DATA     | 11   | SENSOR TAG NUMBER                             |  |             |  |
|                 | 12   | MODEL NUMBER                                  | <b>TP-524D</b>                             |             |  |
|                 | 13   | SENSOR TYPE                                   | <b>Solid State (MOS)</b>                   |             |  |
|                 | 14   | NUMBER OF SENSORS                             | <b>1</b>                                   |             |  |
|                 | 15   | SENSOR HOUSING MATERIAL                       | <b>316SS</b>                               |             |  |
|                 | 16   | CALIBRATED RANGE                              | <b>0-20/50/100ppm</b>                      |             |  |
| TRANSMITTER     | 17   | TRANSMITTER TAG NUMBER                        |  |             |  |
|                 | 18   | MODEL NUMBER                                  | <b>TP-524D</b>                             |             |  |
|                 | 19   | HOUSING NEMA (OR EQUIVALENT) RATING           | <b>NEMA 7/4X</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 - 10-year conditional, Transmitter - 2-year w/ 5-year fixed fee repair
- 3) Operating Temp. -40°C to +75°C, Operating Humidity 5% to 100% RH non-condensing
- 4) Accuracy/Repeatability is the greater of: ±10.0% of reading or ±2ppm
- 5) Response Time: T50 < 30 seconds, T80 < 60 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
- 9) Performance Certified to ISA 92.0.01 Part I-1998: Performance Requirements for H2S