

S5000 GAS MONITOR

S5000

1	2	3	4	5	6	7	8	

GAS MONITOR

General Monitors S5000 Gas Monitor

1 MATERIAL

- 2- (Std) = STAINLESS STEEL - IIB+H2/B,C,D
- 3- = STAINLESS STEEL - IIC/A (for acetylene applications)*

2 OUTPUTS

- 0- (Std) = ANALOG OUT/BLUETOOTH/MODBUS/HART 1.25
- 1- = ANALOG OUT/BLUETOOTH/MODBUS/HART 3.5*
- 2- = ANALOG OUT/BLUETOOTH/MODBUS/HART 1.25/RELAYS
- 3- = ANALOG OUT/BLUETOOTH/MODBUS/HART 3.5/RELAYS*
- 4- = ANALOG OUT/NO BLUETOOTH/MODBUS/HART 1.25
- 5- = ANALOG OUT/NO BLUETOOTH/MODBUS/HART 3.5*
- 6- = ANALOG OUT/NO BLUETOOTH/MODBUS/HART 1.25/RELAYS
- 7- = ANALOG OUT/NO BLUETOOTH/MODBUS/HART 3.5/RELAYS*

3 RELAY STATE

- 0- (Std) = NO RELAYS
- 1- = LATCH ALARM/NON-LATCH WARN DE-ENERGIZED
- 2- = LATCH ALARM/NON-LATCH WARN ENERGIZED
- 3- = LATCH ALARM/LATCH WARN DE-ENERGIZED
- 4- = LATCH ALARM/LATCH WARN ENERGIZED
- 5- = NON-LATCH ALARM/NON-LATCH WARN DE-ENERGIZED
- 6- = NON-LATCH ALARM/NON-LATCH WARN ENERGIZED
- 7- = NON-LATCH ALARM/LATCH WARN DE-ENERGIZED
- 8- = NON-LATCH ALARM/LATCH WARN ENERGIZED

4 APPROVALS

- 0- (Std) = CSA
- 1- = ATEX/IECEx
- 2- = FM
- 4- = Inmetro
- 5- = Marine (MED)
- 6- = Marine (TA)

Notes:

Option 2= FM only available with the following gas codes: D00, D01, D10, D11, D12, D14, D15, D20-29, D36-D39, D42-D44, D60, D61, D65, D66, D77-D79, D83-85, C04, M04-M06, R00, R31, R32, R34, R35, R37, R38.

Option 5 =Only available with gas codes D00, D01, D60, D61, D62, D63, D64, D65, D66, D67, D68, R00, R43, R44. Also includes ATEX/IECEx approval.

Option 6= D00, D01, D60-D68, R00, R43, R44.

5 CUSTOM**

- 00- (Std) = NONE
- 01- = STAINLESS STEEL TAG
- 02- = HART off
- 03- = STAINLESS STEEL TAG, HART off
- 04- = Bluetooth disabled
- 05- = STAINLESS STEEL TAG, Bluetooth disabled

6 SENSOR #1

- Dxx- = Digital Sensor (see gas code list)
- Mxx- = Passive MOS (see MOS list)
- Rxx- = IR400 (see IR list)

Cxx- = Passive Catalytic Bead (see CB list)

7 SENSOR #2

- 000- = No Sensor - only if sensor #1 = Mxx or Cxx
- D00- = No Sensor - only if sensor #1 = Dxx or Rxx (for future upgrade)
- Dxx- = Digital Sensor - only if sensor #1 = Dxx or Rxx (see gas code list)

8 PAINT

- 0- (Std) = NONE
- 1- = GRAY
- 2- = BLUE
- 3- = YELLOW
- 4- = WHITE

Notes:

* not available w/IR400 point IR detector

** HART and Bluetooth can be enabled by customer

SENSOR OPTIONS AVAILABLE ON NEXT PAGE

S5000 GAS MONITOR SENSOR OPTIONS

Sensors

D00 - No sensor or sensor body (transmitter only)	
D01 - No sensor (comes w/sensor body and blank)	Div. 1
D02 - No sensor (comes w/sensor body and blank)	Div. 2

XCELL TRUCAL SENSORS W/DIFFUSION SUPERVISION

D27 - Hydrogen sulfide, DS, 0-10 ppm
D28 - Hydrogen sulfide, DS, 0-50 ppm
D29 - Hydrogen sulfide, DS, 0-100 ppm
D42 - Hydrogen sulfide, DS, 0-20 ppm, MOS defaults
D43 - Hydrogen sulfide, DS, 0-50 ppm, MOS defaults
D44 - Hydrogen sulfide, DS, 0-100 ppm, MOS defaults
D36 - Carbon monoxide, DS, 0-100 ppm
D37 - Carbon monoxide, DS, 0-500 ppm
D38 - Carbon monoxide, DS, 0-1000 ppm
D39 - Carbon monoxide, hydrogen resistant, DS, 0-100ppm
D86 = Hydrogen Sulfide DS, Alcohol Tolerant, 0-10 ppm
D87 = Hydrogen Sulfide DS, Alcohol Tolerant, 0-50 ppm
D88 = Hydrogen Sulfide DS, Alcohol Tolerant, 0-100 ppm

XCELL TRUCAL SENSORS W/OUT DIFFUSION SUPERVISION

D20 - Hydrogen sulfide, 0-10 ppm
D21 - Hydrogen sulfide, 0-50 ppm
D22 - Hydrogen sulfide, 0-100 ppm
D24 - Hydrogen sulfide, 0-20 ppm, MOS defaults
D25 - Hydrogen sulfide, 0-50 ppm, MOS defaults
D26 - Hydrogen sulfide, 0-100 ppm, MOS defaults
D77 - H2S Alcohol Tolerant, 0-20 ppm, MOS default
D78 - H2S Alcohol Tolerant, 0-50 ppm, MOS default
D79 - H2S Alcohol Tolerant, 0-100 ppm, MOS default
D83 - Hydrogen Sulfide Alcohol Tolerant, 0-10 ppm
D84 - Hydrogen Sulfide Alcohol Tolerant, 0-50 ppm
D85 - Hydrogen Sulfide Alcohol Tolerant, 0-100 ppm
D10 - Carbon monoxide, 0-100 ppm
D11 - Carbon monoxide, 0-500 ppm
D12 - Carbon monoxide, 0-1000 ppm
D14 - Carbon monoxide, hydrogen resistant, 0-100 ppm

DIGITAL GAS SENSORS

D15 - Oxygen 0-25% (FM & Marine TA)
D16 - Oxygen 0-25%
D17 - Low Oxygen 0-25%, 1% and 2% alarms
D23 - Hydrogen sulfide, 0-500 ppm
D30* - Chlorine, 0-5 ppm
D31* - Chlorine, 0-10 ppm
D32* - Chlorine, 0-20 ppm
D35* - Chlorine Dioxide, 0-3 ppm
D40* - Ammonia, 0-100 ppm
D41* - Ammonia, 0-1000 ppm
D50* - Sulfur dioxide, 0-25 ppm
D51* - Sulfur dioxide, 0-100 ppm
D70 - Hydrogen, 0-1000 ppm
D71* - Ethylene Oxide, 0-10 ppm
D72 - Nitric Oxide, 0-100 ppm
D73* - Nitrogen dioxide, 0-10 ppm
D74* - Hydrogen Chloride, 0-50 ppm
D75 - Hydrogen Cyanide, 0-50 ppm
D76* - Hydrogen Fluoride, 0-10 ppm
D60 - Combustible, 0-100% LEL - Methane (5.0%)
D61 - Combustible, 0-100% LEL - Propane (2.1%)
D62 - Combustible, 0-100% LEL - Heptane (1.05%)
D63 - Combustible, 0-100% LEL - Nonane (.08%)
D64 - Combustible, 0-100% LEL - Hydrogen (4.0%)

D65 - Combustible, 0-100% LEL - Methane (4.4%)
D66 - Combustible, 0-100% LEL - Propane (1.7%)
D67 - Combustible, 0-100% LEL - Heptane (ATEX 0.85%)
D68 - Combustible, 0-100% LEL - Nonane (ATEX 0.7%)

INFRARED SENSORS (IR400)

R00 - use for replacement transmitter w/IR400
R31 - Stainless steel, Methane, IR400-0-01-2-2-0-1-0
R32 - Stainless steel, Propane, IR400-0-02-2-2-0-1-0
R34 - Stainless steel, Hexane, IR400-0-04-2-2-0-1-0
R35 - Stainless steel, Pentane, IR400-0-05-2-2-0-1-0
R36 - Stainless steel, Ethylene, IR400-0-06-2-2-0-1-0
R37 - Stainless steel, Butane, IR400-0-07-2-2-0-1-0
R38 - Stainless steel, Ethane, IR400-0-08-2-2-0-1-0
R43 - Stainless steel, Methane, IECEx, IR400-0-13-2-2-0-1-0
R44 - Stainless steel, Propane, IECEx, IR400-0-14-2-2-0-1-0
R45 - Stainless steel, Hexane, IECEx, IR400-0-15-2-2-0-1-0
R46 - Stainless steel, Pentane, IECEx, IR400-0-16-2-2-0-1-0
R47 - Stainless steel, Butane, IECEx, IR400-0-17-2-2-0-1-0
R48 - Stainless steel, Ethane, IECEx, IR400-0-18-2-2-0-1-0
R50 - Stainless steel, Ethylene, IECEx, IR400-0-22-2-2-0-1-0

PASSIVE CATALYTIC BEAD (CB) SENSORS

C00 - Use for replacement transmitter w/passive cat bead
C04 - 10058-1, Stainless steel
C10 - 11159-8, Stainless steel, 0-20% LEL, ATEX
C11 - 11159-1, Stainless steel, 0-100% LEL, ATEX

PASSIVE MOS SENSORS

M00 - Use for replacement transmitter w/MOS
M04 - 50448-1, Stainless steel, 0-100 ppm H2S
M05 - 50448-5, Stainless steel, 0-50 ppm H2S
M06 - 50448-9, Stainless steel, 0-20 ppm H2S
M14 - 51457-1, Stainless steel, 0-100 ppm H2S, ATEX
M15 - 51457-5, Stainless steel, 0-50 ppm H2S, ATEX
M16 - 51457-9, Stainless steel, 0-20 ppm H2S, ATEX

Notes:

R43-R50 sensors require that the ATEX option be selected under Approvals.
 D24-D26 sensors use same ranges and H2S cal gas as passive MOS sensors.
 * Gas codes D30, D31, D32, D35, D40, D41, D50, D51, D71, D73, D74 and D76 are Div 2/Zone 2.