SENSALEKI. ASI







SENSALERI. ASI

Advanced Safety Integrity – The best solution for gas detection in critical safety applications.



SensAlert ASI provides enhanced protection and dependability for critical safety applications where personnel, processes, and facilities are at risk. The third-party certified SIL-2 SensAlert ASI offers dependability and versatility while remaining the easiest to install, commission, operate, and maintain.

Critical Protection with Global Approval

SensAlert ASI is third-party certified to IEC61508 Level 2 (SIL-2) for both hardware and software with certification to global hazardous area and performance standards. The Test-on-Demand feature with on-board gas generator provides remote functionality checks with generated gas while Predictive Sensor End-of-Life Indication provides advanced warning of impending sensor failure.

Unmatched Application Versatility

SensAlert ASI is a universal instrument platform for toxic & combustible gas detection and oxygen monitoring. Intrinsically safe or explosion proof installation configurations with options for remote sensors and gassing, duct mount, and sample-draw maximize application versatility. Intrinsically safe or explosion proof installation configurations for remote sensors and gassing, duct mount, and sample-draw maximize application versatility. The sensor head accepts all Plus Series sensor technologies – infrared, catalytic bead, and electro-chemical. Assignable and configurable relays together with communication options provide broad flexibility. The SensAlert ASI I.S. sensor head can be remote mounted up to 100 feet (30m) from the transmitter providing a useful option to position the transmitter in a personnel-accessible location while positioning the sensor closer to potential hazards.

Easy to Install, Commission, Operate, and Maintain

SensAlert ASI is engineered to overcome the challenges users face with traditional gas detectors. The universal instrument platform for all gas and sensor types provides common installation for each point with vertical or horizontal installation options and removable plug-type terminal blocks to simplify wiring and commissioning. Transportable calibration enables sensor calibration and alarm set-up in a safe location, then installing sensors into the intrinsically safe sensor head without declassifying the area or removing power from the instrument. Plug-n-play capability automatically uploads operating parameters and diagnostics from the sensors upon sensor installation. A Sensor Calibration & Exchange Program schedules delivery of factory calibrated sensors to the user's plant or facility for a savings on maintenance and supply costs.

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Non-intrusive User Interface

SensAlert ASI transmitters have a non-intrusive menu driven interface designed for effortless set-up and maintenance. The menu is free from complex icons and symbols and does not require use of remotes or connectors to interface with the transmitter. Below are actual menus and system displays.



Main Display

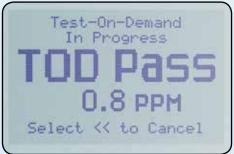
Sensor Data
Max Exposure 21 %LEL
02/07/12 05:21:11
Sensor Temp C 23.6
Max Temp C 32.7
02/07/12 05:40:31
Min Temp C 23.2
03/04/12 07:48:16

Sensor Data Review

Sensor Status

Gas Name CB CMB 100
TWA Conc 0%LEL
Sensor Life Remaining
100%
K Factor Is: 1.00

Predictive Sensor Life



Live Test-on-Demand Sensor Verification

Main Menu
>Calibration Mode
Maintenance Mode
Data Review
Test-On-Demand
System Configuration
Lost Password

Main Menu

System Configuration >Self Test Alarm Settings 4/20mA Adjustment Adjust Date/Time Communication Setup TOD Mode Adjustment --more--

System Configuration Menu

TOD Data Review

TOD Cell Present
Auto Mode Enabled
Next 06/07/12 09:30
Last 03/07/12 09:30
Passed @ 0.8 PPM
Tests 23 Sec 1726

Test-on-Demand Data Review

TOD Mode Adjustment
>Auto Mode Enabled
Test Date/Time
Days Between Tests
Cell Indensity
Output Indicators

Test-on-Demand Adjustment Menu

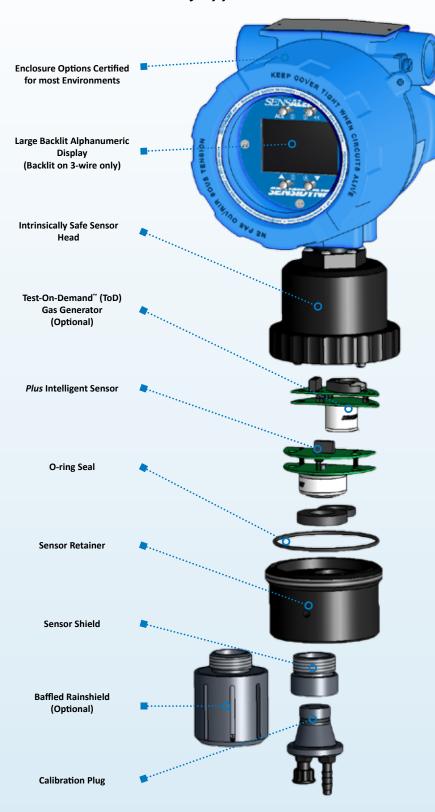


SensAlert ASI provides true installation and application flexibility for local or remote mount sensors to place the sensor closer to potential gas sources.



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Technical Specifications
Sensors
Gas Sensors: Electrochemical, Infrared, Catalytic Bead
Test-On-Demand Modules:Type C and Type S
resc on Semana modules minimum type o and type o
Electrical
Voltage/Power:
2-Wire 24 VDC (18-30 VDC):
3-Wire 24 VDC (12-30 VDC):90 mA With opt. Relay Card and combustible sensors: 300 mA
Output and load resistance with 24 VDC
at transmitter terminals:
3 wire 4-20 mA: 600 Ω maximum
2-wire 4-20 mA:
Optional Card:Three (3) SPDT Configurable Relays
Contact Ratings: 5 Amps at 115 VAC or
30 VDC Resistive
Communication Link 4-20mA current, non-isolated
2 or 4-wire options, RS-485 (Modbus), HART
Controls
Magnetic Keypad: ACK, << (Go Back), ▲, ▼
Security:Password Protected Configuration Menu
Displays
LEDs: Four (4) Red, corresponding to magnetic keypad, and Alarm Relays when equipped.
Graphic LCD:
3-wire transmitters); displays Concentration
and Measuring Units, Gas Name or Type,
Sensor Span, Date and Time, Tag Number
and System messages or Warnings
Environmental
Temperature (Transmitter):40°F to 158°F /-40°C to 70°C
Humidity (Transmitter)0-90% RH, non-condensing
Temperature (Sensor):
Humidity (Sensor):See Sensor Data Sheets Moisture ResistanceIP54; IP56 with optional rainshield
ivioisture Resistance1P34; IP36 with optional rainshield
Enclosure Options
Standard: Blue, Copper-free Cast Aluminum
Dimensions:
170 mm W x 308 mm H x 165 mm D Weight Range:6-8 lbs /2.7-3.6 kg
Long-dome Gray, Copper-free Cast Aluminum
Physical:
160 mm W x 297 mm H x 180 mm D
Weight Range:7-8.7 lbs / 3.2-4.0 kg
Annual Datings
Approval Ratings Explosion Proof
Grps A, B, C, D;
Class II Grps E, F, G; Class III T4
Flame proofATEX EEx d[ia] IIC T4 II 2 [1] G
Non-Incendive NEC and CEC Class I Div 2,
(Enclosed Break) Groups A, B, C, D; Class II Grps E, F, G; Class III T4
ATEX EEx nC [ia] IIC T4 II 3 [1] G
Intrinsic Safety NEC and CEC Class I Div 1, Grps A, B, C, D;
Class II Grps E, F, G; Class III T4
ATEX EEx ia IIC T4 II 1 G
CE Mark
IECExZone 0: Display Ex d [ia] IIC T4 / Sensor Ex ia IIC T4; Zone 1: Ex d [ai] IIC T4; Zone 2: EXnC [ia] IIC T4
UL / IEC IEC 60079-0:2006, IEC 60079-11:1999,
IFC 60079-15:2007



SIL-2 Certified





IEC 60079-15:2007

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..... IEC 61508 SIL-2 Parts 1,2, & 3 Hardware & Software. Fit for use in SIL-2 applications.

