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

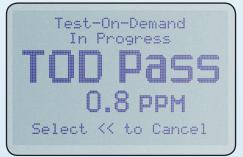
Sensor Data Review

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 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

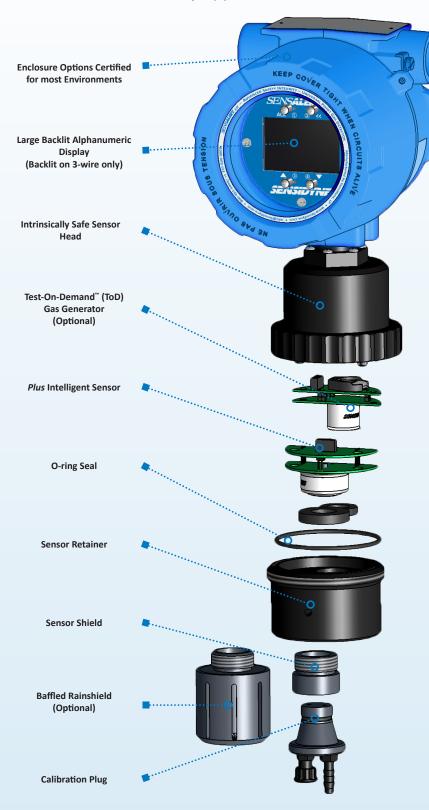


SensAlert ASI provides true installation and application flexibility for local or remote mount sensors to place the sensor closer to potential gas sources.



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Tec	hnical Specifications
Sens	ors
G	as Sensors: Electrochemical, Infrared, Catalytic Bead
Te	est-On-Demand Modules:Type C and Type S
Elect	trical
V	oltage/Power:
	2-Wire 24 VDC (18-30 VDC): 20 mA
	3-Wire 24 VDC (12-30 VDC):
_	With opt. Relay Card and combustible sensors: 300 mA
	utput and load resistance with 24 VDC
aı	t transmitter terminals:
	3 wire 4-20 mA:
	2-wire 4-20 mA:
	Optional Card:Three (3) SPDT Configurable Relays
	Contact Ratings:
	30 VDC Resistive
	Communication Link 4-20mA current, non-isolated
	2 or 4-wire options, RS-485 (Modbus), HART
Cont	rols
N	/lagnetic Keypad: ACK, << (Go Back), ▲, ▼
	ecurity:Password Protected Configuration Menu
Disp	•
L	EDs:Four (4) Red, corresponding to magnetic
	keypad, and Alarm Relays when equipped.
G	raphic LCD:128 by 64 pixel screen (backlight on
	3-wire transmitters); displays Concentration
	and Measuring Units, Gas Name or Type,
	Sensor Span, Date and Time, Tag Number
	and System messages or Warnings
Emi	ronmental
	emperature (Transmitter):40°F to 158°F /-40°C to 70°C
	lumidity (Transmitter)
	emperature (Sensor):
	lumidity (Sensor):
	Noisture Resistance
10	noistare resistance
Encl	osure Options
	tandard: Blue, Copper-free Cast Aluminum
	Dimensions: 6.7" W x 12.2" H x 6.5" D
	170 mm W x 308 mm H x 165 mm D
	Weight Range:6-8 lbs /2.7-3.6 kg
L	ong-dome Gray, Copper-free Cast Aluminum
	Physical: 6.3" W x 11.7" H x 7.1" D
	160 mm W x 297 mm H x 180 mm D
	Weight Range:7-8.7 lbs / 3.2-4.0 kg
	roval Ratings
Е	xplosion Proof NEC and CEC Class I Div 1,
	Grps A, B, C, D;
_	Class II Grps E, F, G; Class III T4
	lame proofATEX EEx d[ia] IIC T4 II 2 [1] G Ion-Incendive NEC and CEC Class I Div 2,
	(Enclosed Break) 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
Ir	ntrinsic 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
C	E MarkATEX Directive 94/9/EC
	ECExZone 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
	U / IEC



SIL-2 Certified



UL / IEC IEC 60079-0:2006, IEC 60079-11:1999,



IEC 60079-15:2007

 $^{\circ}$ 2013 Sensidyne, LP — SAasiDS-Rev. B 06.29.12

... IEC 61508 SIL-2 Parts 1,2, & 3 Hardware

& Software. Fit for use in SIL-2 applications.

