SENSALERI, ASI

Advanced Safety Integrity:

The best solution for gas detection in critical safety applications.



Detection at every point.

SII

CERTIFIED



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 thirdparty 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.

Unmatchzed Application Versatility

SensAlert ASI is a universal instrument platform for toxic & combustible gas detection and oxygen monitoring. 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.

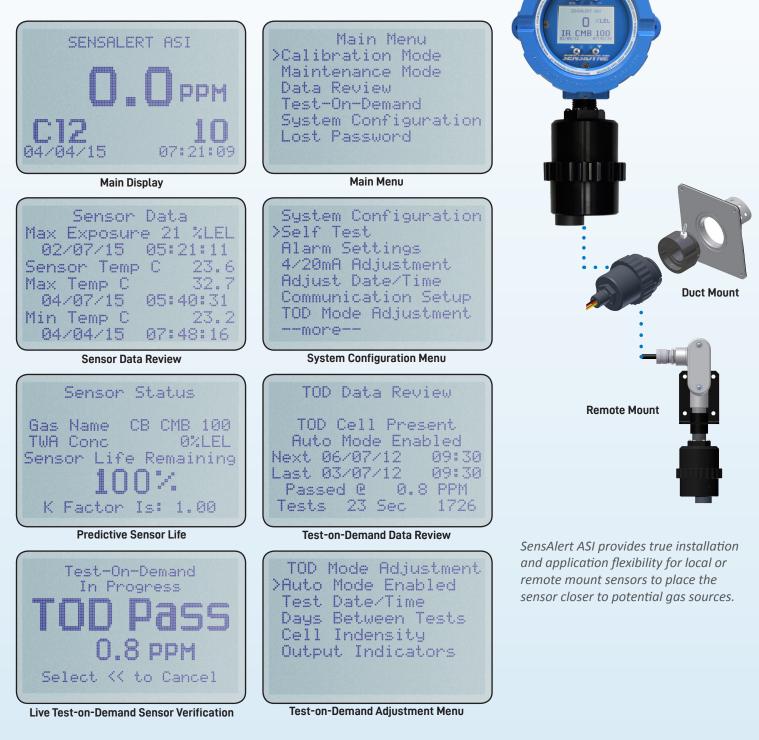


SENSIDYNE.

VSA

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.





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ISYS

Technical Specifications

Sensors
Gas Sensors:Electrochemical, Infrared, Catalytic Bead Test-On-Demand Modules:Type C and Type S
Electrical
Voltage/Power:
2-Wire 24 VDC (18-30 VDC):
With opt. Relay Card and combustible sensors:
Output and load resistance with 24 VDC
at transmitter terminals:
3 wire 4-20 mA: 600 Ω maximum
2-wire 4-20 mA: 350 Ω maximum
Relay:3-Wire Only - One SPDT Configurable Relay
Optional Card: Three (3) SPDT Configurable Relays
Contact Ratings:
30 VDC Resistive Communication Link 4-20mA current, non-isolated
RS-485 (Modbus), 2 or 4-wire options, HART 7.5
Controls
Magnetic Keypad: ▲, ▼
Security:Password Protected Configuration Menu
Disalaur
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):
Humidity (Transmitter)
Temperature (Sensor):
Humidity (Sensor): See Sensor Data Sheets
Moisture ResistanceIP54; IP56 with optional rainshield
Enclosure Options
Standard:Blue, Copper-free Cast Aluminum Optional:
Dimensions:
170 mm W x 308 mm H x 165 mm D
Weight Range, Standard:6-8 lbs /2.7-3.6 kg
Weight, Stainless-Steel: 16 lbs /7.3 kg
Long-dome Gray, Copper-free Cast Aluminum
Physical:
160 mm W x 297 mm H x 180 mm D Weight Range:
Weight Kange
Approval Ratings
North America Explosion Proof, Non-Incendive, Intrinsic Safety
NEC and CEC Class I Div 1, Grps A, B, C, D
Class I Div 2, Groups A, B, C, D
Class II Grps E, F, G
Class III T4 ATEX
(Zone 0, 1, 2) Intrinsic Safety: II 1 G Ex ia IIC T4 Ga
(Zone 1, 2) Flame proof: II 2 [1] G Ex d [ai Ga] IIC T4 Gb
(Zone 2) Increased Safety: II 3 [1] G Ex nA nC [ia Ga] IIC T4 Gc
IECEx
(Zone 0, 1, 2) Intrinsic Safety: Ex ia IIC T4 Ga
(Zone 1, 2) Flame proof: Ex d [ai Ga] IIC T4 Gb
(Zone 2) Increased Safety: Ex nA nC [ia Ga] IIC T4 Gc
SIL-2 Certified IEC 61508 SIL-2 Parts 1, 2, & 3 Hardware
& Software. Fit for use in SIL-2 applications.
$\langle L \rangle < FM \geq \langle FM \rangle$
APPROVED

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