

# ST-IAM (Sensor Transmitter & Integrated Area Monitor)



The Sensor Transmitter Integrated Area Monitor (ST-IAM) utilises a range of sensor technologies to detect most gases. The ST-IAM can be used on a stand-alone basis or integrated into Controls or Building Management Systems (BMS).

**Application:**

- Refrigerant gases all refrigerant gases including: Ammonia, Carbon Dioxide, Hydrocarbons, Halocarbons - HFCs, HCFCs, CFCs.
- Combustible gases such as: Methane, LPG, Propane, Butane, and Hydrogen
- Toxic gases such as: Carbon Dioxide and Ammonia in refrigeration, Hydrogen Sulphide in sewage treatment and Carbon Monoxide in underground car parks
- Volatile Organic Compounds such as: Acetone, Benzene, Carbon Tetrachloride, Chloroform, Ethanol, Toluene, Trichloroethylene.



## FEATURES

Technical Specification	ST-IAM Standard
Power Supply	12/24 V a.c, 12/30 V d.c., 400mA maximum
Power Monitoring	Green LED
Visual Alarm	Orange LED for low level Red LED for high level
Analogue Outputs	0-5V, 0-10V, 4-20mA
Serial Data Interface	RS 485
Digital Outputs	2 Relays rated 1 Amp/24 V d.c /120 V a.c Selectable: NO/NC auto or manual reset, response delay 0, 1, 5 or 10 min
Dimensions and Weight	155 x 185 x 80 mm 850 g
Standard Compliance	  WEEE RoHS EuP

Sensor Information	Electrochemical EC	Semiconductor with filter (multigas) SC	Catalytic (multigas) CAT	Infrared IR
Typical Measurement Range	0-1000ppm	10-1000ppm	ppm- LEL%	ppm - %
Temperature Range	A: -20°C to +40°C B: -40°C to +40°C	-40°C to +50°C	-40°C to +50°C	
Humidity Range non condensing	0 to 95%	0 to 95%	0 to 95%	0 to 95%
Typical Sensor Life	3 yrs	5-8 yrs	5 yrs	5 yrs
Alarm threshold T50	19 sec	76 sec(filtered)	28 sec	42 sec
T90	47 sec	215 sec(filtered)	46 sec	95 sec
Recovery Time	900 sec	600 sec	600 sec	8 mins
Linearity	Linear over calibrated range			
Calibration Requirements	Local regulations may specify the procedure and frequency required. Standards generally require at least annual testing or calibration. Refer to Murco for instructions. Semiconductor sensors are non-selective, but calibrated to a specific gas.			