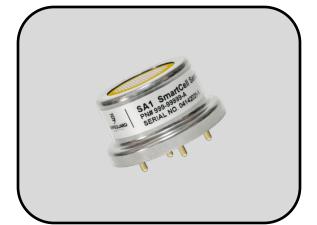


Model SA1-CPS

Smart Sensor Module



Description

Model SA1 smart sensor modules are designed to detect and monitor various gases in ambient air. The modules consist of a target specific gas detection sensor and a microprocessorbased signal conditioning circuit. Both are housed in a metallic enclosure fitted with gold plated connecting pins. The "Smart Sensor Module" is factory programmed for a specific gas and range of sensitivity. On power up the gas type, measurement range and previous zero and span calibration data points are read by the transmitter facilitating a fully automated startup. The modules can be used with any of Safeguard Analytics gas detection transmitters.

Model SA1-CPS (non-selective combustible gases)

Catalytic Pellistor
Diffusion
0-100 % LEL
T90 ≤ 30s
± 2% FS
< 2% per month (In clean air)
< 2% per month (In clean air)
-40°C to +60°C; -40°F to 140°F
0% to 90% RH non-condensing
1 atm ±.1
~ 3.5 to 5 VDC
< 500 milliwatts
3-5 years
2 years

*Specifications subject to change without notice **Contact Safeguard Analytics for additional ranges

Detectable Combustible Gases (Partial List)

Acetaldehyde Acetic Acid Acetic Anhydride Acetone Acetylene Alkyl Alcohol Ammonia n-Amyl Alcohol Aniline Benzene Biphenyl 1,3-Butadiene Butane iso-Butane Butene-1 cis-Butene-2 trans-Butene-2 n-Butyl Alcohol iso-Butyl Alcohol tert-Butyl-Alcohol n-Butyl Benzene iso-Butyl Benzene n-Butyric Acid Carbon Disulphide Carbon Monoxide Carbon Oxysulphide Cyanogen Cyclohexane Cyclopropane Decane Diethylamine Dimethyl Ether Dimethylamine 2,3-Dimethylpentane 2,2-Dimethylpropane Dimethyl sulfide 1,4-Dioxane Ethane Ethyl Acetate Ethyl Acetate Ethyl Alcohol Ethylamine Ethyl Benzene Ethylcyclopentane Ethylene Ethylene Oxide

Diethyl Ether Ethyl Formate Ethyl Mercaptan n-Heptane n-Hexane Hydrogen Cyanide Hydrogen Cyanide Hydrogen Sulfide Methane Methyl Acetate Methyl Alcohol Methylamine Methylcyclohexane Methylethyl Ether Methylethyl Ketone Methyl Formate Methyl Mercaptan Methyl propionate Methyl n-propyl Ketone Naphtha Naphthalene Natural Gas Nitromethane n-Nonane n-Octane Oxygen n-Pentane iso-Pentane Propane n-Propyl Alcohol n-Propylamine Propylene Oxide iso-Propyl Ether Propyne Toluene Triethylamine Trimethylamine Vinyl Chloride Vinyl Ethyl Ether o-Xylene m-Xylene p-Xylene



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