

SAFESITE® Sentry™ Detector *and* CW Sentry™ Detector Competitive Comparison

The SAFESITE® Sentry Chemical Agent Detector combines technologies to enable detection of a wide variety of potential threats. This continuous, 24/7 monitor combines proven SAW and electrochemical technologies to simultaneously detect nerve (G) and blister (H) agents, VOCs, TICs, and gamma radiation. It is highly selective to specific chemical agents, reducing false alarms. Exclusive features and options include GPS, wireless access, and toxic gas specificity with ppm readout.

The CW Sentry™ Chemical Agent Detector is a permanently installed, 24/7 multigas instrument which detects and classifies both chemical warfare agents and toxic industrial chemicals. Designed as an innovative combination of proven technologies, the CW Sentry uses both surface acoustic wave (SAW) sensor arrays and electrochemical sensors.



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	MSA SAFESITE Sentry Chemical Agent Detector	MSA CW Sentry Chemical Agent Warfare Detector	Smiths Detection Centurion	Smiths Detection GID 3 24/7	Bruker RAID-S
Sensing technology	SAW / Electrochemical / PID / Catalytic Bead	SAW / Electrochemical array	IMS (Ion Mobile Spectrometry)	IMS (Ion Mobile Spectrometry)	IMS (Ion Mobile Spectrometry)
Radioactive source utilized for CWA detection	No	No	Yes	Yes	Yes
CWA response time	30 seconds	30 seconds	5-10 seconds	10-30 seconds	10-30 seconds
CWAs detected	GA, GB, GD, GF, HD, HN-3	GA, GB, GD, GF, HD, HN-3	GA, GB, GD, GF, HD, HN-3	GA, GB, GD, GF, HD, HN, HN-3, VX, L	GA, GB, GD, GF, HD
Interference rejection (false alarms)	Very good	Very good	Very good	Good	Very good
Maximum sensors	6	5	1	1	1
Combustible, oxygen, and PID sensor options	Yes	No	No	No	No
Gamma radiation detection	Yes - CZT technology	No	Yes - GM tube technology	No	No
Plug and protect electrochemical, catalytic bead, and PID sensors	Yes - more than 30 sensors available	No	No	No	No
GPS option available with automatic mapping for outdoor installations	Yes	No	No	No	No
Data communications options	900 Mhz wireless, RS-485 with Modbus, fiber optic, ethernet	RS-232, ethernet, fiber optic and wireless	Ethernet, RS-485, RS-232	RS-485 and RS-232	RS-422 and ethernet
TIC detection	PPM readout to over 30 specific sensors	By class (blood, choke, halogen and hydrid)	TIC programmable to approximately 9 selective chemicals with PPM readout	TIC optional to selective chemicals with PPM readout	TIC optional to approximately 5 selective chemicals with PPM readout
Repeater capability and ability to change system allocation with SAFECONFIG software	Yes	No	No	No	No
Operating temperature range	-20°C to +45°C	-20°C to +45°C	Unknown	-30°C to +55°C	-25°C to +55°C
Dimensions	24" H x 20" W x 10" D	24.75" H x 19.5" W x 9.5" D	18" H x 16" W x 11" D	26" H x 16.5" W x 13.6" D	16" H x 20" W x 6" D
Weight	75 lbs	40 lbs	31 lbs	81 lbs	26 lbs
Warranty	1 year	1 year	1 year	1 year	1 year

Note: this Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

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