Detector for Hazardous Chemical Agents and Explosives

Premium Segment

CERTIFICATE 969

Fully certified by Federal Security Service

First

fully automatic detection system for hazardous chemical agents and explosives **without disposable consumables**

PREMIUM SEGMENT

Identification and recognition of hazardous chemical agents 24 hours per day, 7 days per week

Identification and recognition of explosive traces using lightweight and compact reusable inspection receptors

Advantages:

- ✓ Identification and recognition of explosive traces without wipes or other disposable consumables
- ✓ Simultaneous detection and identification of all major toxic and poisonous substances
- ✓ Prompt reaction to changes in air composition
- ✓ Long service interval
- ✓ Unlimited scalability of the system
- ✓ Intuitive operator interface without controls

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Detector for Hazardous Chemical Agents and Explosives

Premium Segment

Automatic gas analyzer “Segment” in extended configuration

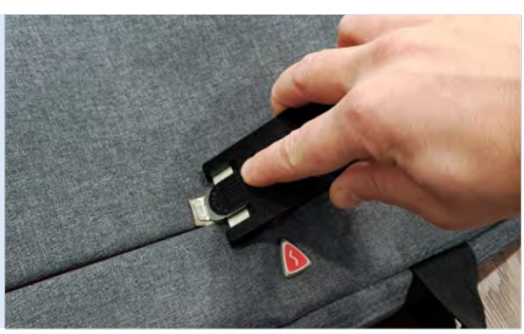
Table/stationary unit

Detection principle	bipolar ion mobility spectrometry
Identified explosives	blasting and initiating, industrial and home-made, including: TNT, RDX, PETN, DNT, nitroglycerin, EGDN, HMX, tetryl, trinitrophenol, ammonium nitrate/ANFO, dinitronaphthalene, acetone triperoxide, HMTD, as well as mixed explosives based on them (plastic explosives, dynamites, gunpowder, etc.)
Detectable hazardous chemical agents	- hazardous chemicals: hydrogen sulfide, hydrogen chloride (hydrochloric acid), hydrogen fluoride (hydrofluoric acid), sulfur dioxide (sulfur dioxide), chlorine, ammonia, nitric acid. - CWAs: sarin (GB), soman (GD), VX, mustard gases (HD, HNx), lewisite, phosgene, diphosgene, hydrocyanic acid/cyanides.
Detectable illicit drugs and psychotropics	cannabinoids (hashish, marijuana), opiates (morphine, heroin, codeine, fentanyl, etc.), amphetamines (amphetamine, methamphetamine, MDMA, etc.), cocaine, etc.
Detection limits:	
- for traces of explosives (in terms of TNT)	< 1 ng
- for CWAs	$1.0 \cdot 10^{-3}$–$1.0 \cdot 10^{-2}$ mg/m^3
- for TICs	ABOUT 1×PEL (PERMISSIBLE EXPOSURE LIMIT)
Display	color touch screen 8"
Printer	Built-in thermal printer
Response time	max 5 sec
Dimensions (L×W×H)	330x230x275 mm
Weight	8 kg
Consumed power	up to 250 W

Inspection receptor

Portable unit

Number of receptors used with one table unit	Not limited
Number of measurement cycles	min 1 000
Overall dimensions (LxWxT)	115x48x10 mm
Weight	41 g



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