

Detector for Hazardous Chemical Agents and Explosives Segment



CERTIFICATE
969

Fully certified by Federal Security Service



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

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

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

Detector for Hazardous Chemical Agents and Explosives Segment



Automatic stationary gas analyzer "Segment"

Tabletop/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 | <ul style="list-style-type: none"> - 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 | $1.0 \cdot 10^{-3} - 1.0 \cdot 10^{-2} \text{ mg/m}^3$ |
| - for TICs | ABOUT 1×PEL (PERMISSIBLE EXPOSURE LIMIT) |
| Response time | max 5 sec |
| Dimensions (L×W×H) | 250x110x225 mm |
| Weight | 3.5 kg |
| Consumed power | up to 120 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 |

