Detector for Explosives and Hazardous Chemical Agents

Kerber-T

CERTIFICATE 969

Fully certified by Federal Security Service

Identification and recognition of explosives

Identification and recognition of hazardous chemical agents

The Kerber-T ion drift detector is designed to detect trace quantities of explosives, drugs, hazardous chemicals and chemical warfare agents (CWAs) in the air of controlled facilities, on the surface of various items, skin and clothing of people.

Advantages:

- ✓ Simultaneous detection of positive and negative ions
- ✓ Quick switching between vapor and trace analysis modes
- ✓ Non-radioactive ionization source
- ✓ Does not require expensive consumables
- ✓ Wide range of detectable substances
- ✓ Efficient self-cleaning system

Scope of application:

- inspection of cargo, vehicles, individuals, carry-on bags and luggage at transport infrastructure facilities, in crowded places, during customs and border control;
- inspection of territories and facilities by environmental control services;
- inspection of suspects by law enforcement authorities;
- examination of postal items, etc.

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Detector for Explosives and Hazardous Chemical Agents

Kerber-T

Specifications

Detection principle	bipolar ion mobility spectrometry
Ionization method	pulsed corona discharge (without radioactive source)
Dimensions of the detector (LxWxH)	410x110x170 mm
Weight	3.7 kg
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 illicit drugs and psychotropics	cannabinoids (hashish, marijuana), opiates (morphine, heroin, codeine, fentanyl, etc.), amphetamines (amphetamine, methamphetamine, MDMA, etc.), cocaine, 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.
Detection range of low-volatile organic substances n terms of 2,4,6-trinitrotoluene (TNT)	from $1.0*10^{-11}$ to $2.0*10^{-7}$ g
Detection limit of low-volatile organic substances in terms of 2,4,6-trinitrotoluene (TNT) - in terms of solid particles - in terms of vapors	 < 1 ng min $1.0*10^{-14}$ g/cm^3
Time to switch to the operating mode	max 15 min
Detection and identification time for all detected substances	max 5 sec
Switching time between vapor and particle detection modes	max 1 sec
Switching between vapor and particle detection modes	without attaching additional accessories
Time to change the type of analyzed ions (automatic cyclic change of polarity)	max 0.2 sec
False response rate	max 1 %
Time of continuous self-contained operation with standard battery pack	min 4 h
Detector cleaning time under normal operating conditions	max 3 min
Computer communication interfaces	Ethernet, USB (×2), Wi-Fi (optional)
Data format for logging and exchange	XML, PNG

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