ChemProX

New Generation Handheld

Gas Library datasheets

ChemProX Detection Mode Datasheet
DEFAULT 6.x
CWA High Sensitive Performance Specification

Detection mode for high threat-level scenarios. Suitable for example trace detection or personnel screening in situations where CWA attack has occurred.

Alarm indications				Agents	Alarm limits
Text	Icon	Audio	Visible	Name	[mg/m³]
Nerve			Red LED	Sarin (GB)	0.04
				Tabun (GA)	
				Soman (GD)	
				Cyclosarin (GF)	
				VX[1]	
Blister			Red LED	Sulfur mustard (HD)	0.5
				Lewisite (L)	2
				Nitrogen mustard (HN3)	2
Blood			Red LED	Hydrogen cyanide (AC)	20
Choking			Red LED	Chlorine (CL)	10 ppm
Chemical detected			Red LED	Generic alarm for chemicals in hazardous concentration or chemical mixtures	

1) Includes degraded VX and Russian VX

Other detection modes and performance specifications available on request

tel +358 201 430 430 · fax +358 201 430 440
sales@environics.fi · www.environics.fi

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CWA Sensitive Performance Specification

Detection mode for heightened threat-level scenarios. Primary CWA sensitivity for military or first responders when circumstances indicate a CWA attack has occurred or there is suspicion of one to occur.

Alarm indications				Agents	Alarm limits
Text	Icon	Audio	Visible	Name	[mg/m³]
Nerve		▪▪▪▪▪▪	Red LED	Sarin (GB)	0.1
				Tabun (GA)	
				Soman (GD)	
				Cyclosarin (GF)	
				VX[1]	
Blister		▪▪▪▪▪▪	Red LED	Sulfur mustard (HD)	2
				Lewisite (L)	2
				Nitrogen mustard (HN3)	5
Blood		▪▪▪▪▪▪	Red LED	Hydrogen cyanide (AC)	50
Choking		▪▪▪▪▪▪	Red LED	Chlorine (CL)	10 ppm
Chemical detected		▪▪▪▪▪▪	Red LED	Generic alarm for chemicals in hazardous concentration or chemical mixtures	

1) Includes degraded VX and Russian VX

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CWA Standard Performance Specification

Detection mode for low threat-level scenarios, i.e. event security, where CWAs are only expected to be present in abnormal circumstances.

Alarm indications				Agents	Alarm limits
Text	Icon	Audio	Visible	Name	[mg/m^3]
Nerve			Red LED	Sarin (GB)	1
				Tabun (GA)	
				Soman (GD)	
				Cyclosarin (GF)	
				VX[1]	
Blister			Red LED	Sulfur mustard (HD)	5
				Lewisite (L)	2
				Nitrogen mustard (HN3)	5
Blood			Red LED	Hydrogen cyanide (AC)	50
Choking			Red LED	Chlorine (CL)	10 ppm
Chemical detected			Red LED	Generic alarm for chemicals in hazardous concentration or chemical mixtures	

1) Includes degraded VX and Russian VX

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TIC Classification Performance Specification

Detection mode with classification of toxic threats. To be used after alarm with TIC Detection mode to give more information of the chemical threat.

Alarm indications				Agents	Alarm limits
Text	Icon	Audio	Visible	Name	[ppm]
TIC oxidizer			Red LED	Chlorine (Cl_2)	10
				Fluorine (F_2)	25
				Nitrogen dioxide (NO_2)	20
TIC hydride [1]			Red LED	Ammonia (NH_3)	100
				Arsine (AsH_3)	3
				Hydrogen sulfide (H_2S)	10
				Phosphine (PH_3)	50
TIC acidic			Red LED	Hydrogen bromide (HBr) [2]	30
				Hydrogen chloride (HCl) [2]	50
				Hydrogen fluoride (HF) [2]	30
				Nitric acid (HNO_3) [2]	25
				Phosphorus trichloride (PCl_3) [2]	25
TIC organic [1]			Red LED	Acrylonitrile (C_3H_3N)	60
				Allyl alcohol (C_3H_6O)	20
				Ethylene oxide (C_2H_4O)	360
				Formaldehyde (CH_2O)	20
TIC [1]			Red LED	Boron trifluoride (BF_3) [2]	25
				Carbon disulfide (CS_2)	500
				Carbon monoxide (CO)	200
				Hydrogen cyanide (HCN)	20
				Sulfur dioxide (SO_2)	100
Chemical detected			Red LED	Generic alarm for chemical in hazardous concentration or chemical mixtures	

1) Agents may be indicated incorrectly in high concentrations

2) Prolonged exposure of corrosive chemicals in high concentrations may cause internal harm to detector

Other detection modes and performance specifications available on request

ChemProX Detection Mode Datasheet
DEFAULT 6.x

TIC Confirmation Performance Specification

Detection mode with identification of selected toxic chemicals. To be used after alarm with TIC Detection or TIC Classification mode to give more information of the chemical threat.

Alarm indications				Agents	Alarm limits
Text	Icon	Audio	Visible	Name	[ppm]
Ammonia				Ammonia (NH_3)	300
Chlorine				Chlorine (Cl_2)	50
Hydrogen cyanide				Hydrogen cyanide (HCN)	27
Hydrogen fluoride	💀	◉■■■■■■■	Red LED	Hydrogen fluoride (HF) [1]	170
Hydrogen sulfide				Hydrogen sulfide (H_2S)	76
Sulfur dioxide				Sulfur dioxide (SO_2)	100
Chemical detected	❗	◉■■■■■■■	Red LED	Generic alarm for chemical in hazardous concentration or chemical mixtures	

1) Prolonged exposure of corrosive chemicals in high concentrations may cause internal harm to detector

Other detection modes and performance specifications available on request

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TIC Detection Performance Specification

Detection mode that includes broad list of TICs. To be used as primary detection mode in situations of potential toxic threat.

Alarm indications				Agents	Alarm limits
Text	Icon	Audio	Visible	Name	[ppm]
Toxic		◖■■■■■■■	Red LED	Acrylonitrile (C_3H_3N)	60
				Allyl alcohol (C_3H_6O)	20
				Allylamine (C_3H_7N)	30
				Ammonia (NH_3)	100
				Arsine (AsH_3)	3
				Benzene (C_6H_6)	500
				Boron trifluoride (BF_3) [1]	25
				Carbon disulfide (CS_2)	500
				Carbon monoxide (CO)	200
				Chlorine (Cl_2)	10
				1,2-Dimethylhydrazine ($C_2H_8N_2$)	15
				Dimethyl sulfate ($C_2H_6O_4S$)	7
				Ethylene oxide (C_2H_4O)	360
				Fluorine (F_2)	25
				Formaldehyde (CH_2O)	20
				Hydrogen bromide (HBr) [1]	30
				Hydrogen chloride (HCl) [1]	50
				Hydrogen cyanide (HCN)	20
				Hydrogen fluoride (HF) [1]	30
				Hydrogen sulfide (H_2S)	10
				Methanol (CH_4O)	200
				Methyl hydrazine (CH_6N_2)	16
				Nitric acid (HNO_3) [1]	25
				Nitrogen dioxide (NO_2)	13
				Phosphine (PH_3)	50
				Phosphorus trichloride (PCl_3) [1]	25
				Sulfur dioxide (SO_2)	100
Chemical detected	!	◖■■■■■■■	Red LED	Generic alarm for chemical in hazardous concentration or chemical mixtures	

1) Prolonged exposure of corrosive chemicals in high concentrations may cause internal harm to detector

Other detection modes and performance specifications available on request