

Product Catalogue 2024

Dräger-Tubes® and MicroTubes

Dräger

Technology for Life

Dräger-Tubes® and MicroTubes

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Dräger-Tubes® and MicroTubes



Safety to go.

Many hazards in the workplace cannot be detected by human senses: some toxic gases, oxygen deficiency, some combustible gases and vapors. These hazards pose a serious threat to human life and plant safety in many industries. When it comes to the reliable detection of known and unknown gases, you can rely on portable gas detection technology from Dräger. Our extensive product range offers you the perfect solution for every application.

The development of our Dräger-Tubes® more than eighty years ago laid the cornerstone for accurate gas detection. Today, thanks to continuous research and development, we now offer more than 250 Dräger-Tubes® able to detect over 500 substances. Combined with the Dräger X-act® 7000 system, an electronic form of the tube, Dräger provides you with some of the most accurate and reliable means available for spot concentration measurements in the parts per billion range.

Dräger Tubes Measurement-System

Dräger-Tubes®.

Each order number refers to one box of tubes. Usually one box contains ten tubes. In other cases the number in brackets behind the name of the tube indicates the measurements per box. For the Dräger-tubes the standard measuring range is mentioned. For a possible measuring range extension, please have a look into the instruction for use. The indicated measurement time relates regarding the Tubes for short term measurements to the stated numbers of strokes for the particular tube. If the measurement time is less than 1 Minute, it will be stated with the abbreviation "s" in seconds.

Dräger-Tubes® and MicroTubes

Dräger-Tubes® Measurement System

Short-Term Dräger-Tubes®

Dräger-Tubes® are an easy to use and cost effective way to measure toxic gases and vapors in the workplace. More than 200 different Dräger-Tubes® are available to accurately make spot measurements for over 500 gases and vapors.



ST-1364-2004

Dräger-Tubes® and MicroTubes

Disclaimer

Dräger-Tubes are used in conjunction with either a manual or automatic sampling pump using individual Dräger-Tubes or special 5 tube sets for simultaneous measurement. Dräger Pumps and short-term Dräger-Tubes® are not interchangeable with other manufacturers' pumps and detector tubes.

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Acetaldehyde 100/a	100 - 1000 ppm	5	6726665
Acetic Acid 5/a	5 - 80 ppm	30sec	6722101
Acetone 40/a (5)	40 -800 ppm	1	8103381
Acetone 100/b	100 - 12,000 ppm	4	CH22901
Acid Test	qualitative	3 sec	8101121
Acrylonitrile 0.2/a	0.2 - 4 ppm	4	8103701
Activation tube for use in conjunction with Formaldehyde 0.2/a tube			8101141
Amine-Test	qualitative	5 sec	8101061
Ammonia 0.25/a	0.25 - 3 ppm	1	8101711
Ammonia 2/a	2 - 30 ppm	1	6733231
Ammonia 5/a	5 - 70 ppm 50 - 600 ppm	6 sec	CH20501
Ammonia 5/b	5 - 100 ppm	10 sec	8101941
Ammonia 0.5%/a	0.5 - 10 ppm	20 sec	CH31901
Aniline 0.5/a	0.5 - 10 ppm	4	6733171
Aniline 5/a	1 - 20 ppm	3	CH20401
Arsine 0.05/a	0.05 - 3 ppm	6	CH25001
Benzene 0.25/a	0.25 - 2 ppm 2 - 10 ppm	5 1	8103691
Benzene 2/a (5)	2 - 60 ppm	8	8101231
Benzene 5/a	5 - 40 ppm	3	6718801
Benzene 5/b	5 - 50 ppm	8	6728071
Benzene 15/a	15 - -420 ppm	4	8101741
BTX (Toluene 5/b)	50 - 300 ppm 5 - 80 ppm	1 5	8101661
Carbon Dioxide 100/a	100 - 3,000 ppm	4	8101811
Carbon Dioxide 0.1%/a	0.5 - 6 Vol.-% 0.5 - 6 Vol.-%	30 sec	CH23501
Carbon Dioxide 0.5%/a	0.5 - 10 Vol.-%	30 sec	CH31401
Carbon Dioxide 1%/a	1 - 20 Vol.-%	30 sec	CH25101

Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Carbon Dioxide 5%/A	5 - 60 Vol.-%	2	CH20301
Carbon Disulphide 3/a	3 - 95 ppm	2	8101891 ²
Carbon Disulphide 5/a	5 - 60 ppm	3	6728351
Carbon Disulphide 30/a	0.1 - 10 mg/L	1	CH23201
Carbon Monoxide 2/a	2 - 60 ppm	4	6733051
Carbon Monoxide 5/c	100 - 700 ppm 5 - 150 ppm	30 sec 2.5	CH25601
Carbon Monoxide 8/a	8 - 150 ppm	2	CHI9701
Carbon Monoxide 10/b	100 - 3,000 ppm 10 - 300 ppm	20 sec 4	CH20601
Carbon Monoxide 0.3%/b	0.3 - 7 Vol.-%	30 sec	CH29901 ²
Carbon Tetrachloride 0.1/a	0.1 - 5 ppm	2.5	8103501
Carbon Tetrachloride 1/a	1 - 15 ppm	10	8101021
Chlorine 0.2/a	0.2 - 3 ppm 3 - 30 ppm	3 20 sec	CH24301
Chlorine 0.3/b	0.3 - 5 ppm	8	6728411
Chlorine 50/a	50 - 500 ppm	20 sec	CH20701
Chlorine Dioxide 0.025/a specific	0.025 - 0,1 ppm 0.1 - 1 ppm	7.5 2.5	8103491
Chlorobenzene 5/a (5)	5 - 200 ppm	3	6728761
Chloroform 2/b (5)	20 - 80 ppm	3	6728861 ²
Chloroformates 0.2/b	0.2 - 10 ppm	3	6718601
Chloromethane 10/a	10-100 ppm	1.5	8103911
Chloroprene 5/a	5 - 60 ppm	3	6718901
Chloropicrine 0.1/a	0.1 - 2 ppm	7.5	8103421
Chromic Acid 0.1/a (9)	0.1 - 0.5 mg/m ³	8	6728681
Cyanide 2/a	2 - 15 mg/m ³	2	6728791 ²
Cyanogen Chloride 0.25/a	0.25 - 5 ppm	5	CHI9801
Cyclohexane 40/a	40 - 200 ppm 500 - 3000 ppm	75 sec 15 sec	8103671
Cyclohexylamine 2/a	2 - 30 ppm	4	6728931
Diesel Fuel	25 - 200 mg/m ³	30	8103475 ²
Diethyl Ether 100/a	100 - 4000 ppm	2.5	6730501
Dimethyl Formamide 10/b	10 - 40 ppm	3	6718501
Dimethyl Sulphate 0.005/c (9)	0.005 - 0.05 ppm	50	6718701

Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Dimethyl Sulphide 1/a (5)	1 - 15 ppm	15	6728451
Epichlorhydrin 5/b	5 - 80 ppm	8	6728111
Ethanol 100/a	100 - 3000 ppm	1.5	8103761
Ethyl Acetate 200/a	200 - 3,000 ppm	5	CH20201
Ethyl Benzene 30/a	30 - 400 ppm	2	6728381
Ethylene 0.1/a (5)	0.2 - 5 ppm	30	8101331
Ethylene 50/a	50 - 2,500 ppm	6	6728051
Ethylene Glycol 10 (5)	10 - 180 mg/m ³	7	8101351
Ethylene Oxide 1/a (5)	1 - 15 ppm	8	6728961
Ethylene Oxide 25/a	25 - 500 ppm	6	6728241
Ethyl Glycol Acetate 50/b	50 - 700 ppm	3	6726801
Fluorine 0.1/a	0.1 - 2 ppm	5	8101491
Formaldehyde 0.2/a	0.2 - 2.5 ppm 0.5 - 5 ppm	1.5	6733081
Activation Tube for use in conjunction with Formaldehyde 0.	2/a tube		8101141
Formaldehyde 2/a	2 - 40 ppm	30 sec	8101751
Formic Acid 1/a	1 - 15 ppm	3	6722701
Halogenated	100 - 2,600 ppm	1	8101601
Hydrocarbons 100/a (8)			
Hexane 10/a	10 - 200 ppm 300 - 2,500 ppm	5 1	8103681
Hydrazine 0.01/a	0.01 - 0.4 ppm 0.5 - 0.6 ppm	20 1	8103351
Hydrazine 0.25/a	0.25 - 10 ppm 0.1 - 5 ppm	1 2	CH31801
Hydrocarbon 2/a	2 - 24 mg/L	5	8103581
Hydrocarbon 0.1%/c	0.1 - 1.3 Vol.-%	2	8103571
Hydrochloric Acid 0.2/a	0.2 - 3 ppm 3 - 20 ppm	2 40 sec	8103481
Hydrochloric Acid 1/a	1 - 10 ppm	2	CH29501
Hydrochloric Acid 50/a	500 - 5,000 ppm 50 - 500 ppm	30 sec 4	6728181
Hydrochloric Acid /Nitric Acid 1/a			8101681
- Hydrochloric Acid	1 - 10 ppm	1.5	
- Nitric Acid	1 - 15 ppm	3	

Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Hydrocyanic Acid 0.5/a	0.5 - 5 ppm 5 - 50 ppm	30 sec 0,5	8103601
Hydrogen 0.2%/a	0.2 - 2.0 Vol.-%	1	8101511
Hydrogen 0.5%/a	0.5 - 3.0 Vol.-%	1	CH30901
Hydrogen Fluoride 0.5/a	0.5 - 15 ppm 0.5 - 15 ppm	2 25 sec	8103251
Hydrogen Fluoride 1.5/b	1.5 -15 ppm	2	CH30301
Hydrogen Peroxide 0.1/a	0.1 - 3 ppm	3	8101041
Hydrogen Sulphide 0.2/a	0.2 - 5 ppm	5	8101461
Hydrogen Sulphide 0.2/b	0.2 - 6 ppm	55 sec	8101991
Hydrogen Sulphide 0.5/a	0.5 - 15 ppm	6	6728041
Hydrogen Sulphide 1/c	10 - 200 ppm 1 - 20 ppm	20 sec 3	6719001
Hydrogen Sulphide 1/d	10 - 200 ppm 1 - 20 ppm	1 10	8101831
Hydrogen Sulphide 2/a	20 - 200 ppm 2 - 20 ppm	20 sec 3.5	6728821
Hydrogen Sulphide 2/b	2 - 60 ppm	30 sec	8101961
Hydrogen Sulphide 5/b	5 - 60 ppm	4	CH29801
Hydrogen Sulphide 100/a	100 - 2,000 ppm	30 sec	CH29101
Hydrogen Sulphide 0.2%/A	0.2 - 7 Vol.-%	2	CH28101
Hydrogen Sulphide 2%/a	2 - 40 Vol.-%	1	8101211
Simultan. Tube H2S + SO2 0.2%/a	0.2 - 7 Vol.-%	2	CH28201
Iodine 0.1/a	1 - 5 ppm 0.1 - 0.6 ppm	1 5	8103521
i-Propanol 50/a	50 -4000 ppm	2.5	8103741
Mercaptan 0.1/a	0.1 -2.5 ppm 3 - 15 ppm	3 40 sec	8103281
Mercaptan 0.5/a	0.5 - 5 ppm	5	6728981
Mercaptan 20/a	20 - 100 ppm	2.5	8101871
Mercury Vapour 0.1/b	0.05 - 2 mg/m3	10	CH23101
Methanol 20/a	20 - 250 ppm 200 - 5000 ppm	6 2	8103801
Methyl Acrylate 5/a 5	5 - 200 ppm	5	6728161
Methyl Bromide 0.1/a	0.1 - 5 ppm 5 - 50 ppm	8 4	3706301

Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Methylene Chloride 20/a	20 ppm	7	8103591 ²
Natural Gas Odorization, Tertiary Butylmercaptan	3 mg/m ³ 1 mg/m ³	3 5	8103071
Natural Gas Test (5)	qualitative	100	CH20001 ²
n-Butanol 10/a	10 - 250 ppm 250 - 2000 ppm	6 1	8103861
Nickel Tetracarbonyl 0.1/a (9)	0.1 - 1 ppm	5	CH19501
Nitric Acid 1/a	5 - 50 ppm 1 - 15 ppm	2 4	6728311
Nitrogen Dioxide 0.1/a	0,1 - 5 ppm 5 - 30 ppm	75 sec 15 sec	8103631
Nitrogen Dioxide 2/c	5 - 100 ppm 2 - 50 ppm	1 2	6719101
Nitrous Fumes 0.2/a	0,2 - 6 ppm	75 sec	8103661
Nitrous Fumes 2/a	5 - 100 ppm 2 - 50 ppm	1 2	CH31001
Nitrous Fumes 20/a	20 - 500 ppm	30 sec	6724001
Nitrous Fumes 50/b	50 - 1,000 ppm 500 - 4,000 ppm	40 sec 80 sec	8103941
Oil 10/a-P	0.1 - 1 mg/m ³	25	6728371
Oil Mist 1/a	1 - 10 mg/m ³	25	6733031
Olefine 0.05%/a		5	6733031
- Propylene	0.06 - 3.2 Vol.-%		
- Butylene	0.04 - 2.4 Vol.-%		
Organ. Arsenic Compounds and Arsine	0.3 mg/m ³ as AsH ₃ 1 mg/m ³	3 1.5	CH26303 CH25903
Organic Basic Nitrogen Compounds			
Oxygen 5%/B (8)	5 - 23 Vol.-%	1	6728081
Oxygen 5%/C	5 - 23 Vol.-%	1	8103261
Ozone 0.05/b	0.05 - 0.7 ppm	3	6733181
Ozone 10/a	20 - 300 ppm	20 sec	CH21001
Pentane 100/a	100 - 1,500 ppm	15 sec	6724701
Perchloroethylene 0.1/a	0.5 - 4 ppm 0.1 - 1 ppm	3 9	8101551
Perchloroethylene 2/a	20 - 300 ppm 2 - 40 ppm	30 sec 3	8101501
Petroleum Hydrocarbons 10/a	10 - 300 ppm	1	8101691

Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Petroleum Hydrocarbons 100/a	100 - 2,500 ppm	30 sec	6730201
Phenol 1/b	1 - 20 ppm	5	8101641
Phosgene 0.02/a	0.02 - 1 ppm 0.02 - 0.6 ppm	6 12	8101521
Phosgene 0.25/c	0.25 - 5 ppm 0.01 - 0.3 ppm	1 8	CH28301
Phosphine 0.01/a	0.1 - 1 ppm 0.01 - 0.3 ppm	2.5 8	8101611
Phosphine 0.1/c	0.5 - 3 ppm 0.1 - 1.0 ppm	1 2.5	8103711
Phosphine 0.1/b	1 - 15 ppm	20 sec	8103341
in Acetylene	0.1 - 1 ppm	4	
Phosphine 1/a	10 - 100 ppm 1 - 20 ppm	2 10	8101801
Phosphine 25/a	200 - 10,000 ppm 25 - 900 ppm	1.5 13	8101621
Phosphine 50/a	50 ppm	2	CH21201
Phosphoric Acid Ester 0.05/a	0.05 ppm	5	6728461
Polytest	qualitative	1.5	CH28401
Pyridine 5/A	5 ppm	20	6728651
Styrene 10/a	10 - 200 ppm	3	6723301
Styrene 10/b	10 - 250 ppm	3	6733141
Styrene 50/a	50 - 400 ppm	2	CH27601
Sulphur Dioxide 0.1/a	0.1 - 3 ppm	20	6727101
Sulphur Dioxide 0.5/a	1 - 25 ppm 0.5 - 5 ppm	3 6	6728491
Sulphur Dioxide 1/a	1 - 25 ppm	3	CH31701
Sulphur Dioxide 20/a	20 - 200 ppm	3	CH24201
Sulphur Dioxide 50/b	400 - 8,000 ppm	15 sec	8101531
Sulphuric Acid 1/a (9)	1 - 5 mg/m ³	100	6728781
Sulfuryl Fluoride 1/a (5)	1 - 5 ppm	3	8103471
Tertiary Butylmercaptan	3 - 15 mg/m ³	3	8103071
Natural Gas Odorization	1 - 10 mg/m ³	5	

Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement (20 °C, 1013 hPa):	Measurement Time (sec or min)	Order No.
Tetrahydrothiophene 1/b (5)	1 - 10 ppm 4 - 40 mg/m ³	10	8101341
Thioether	1 mg/m ³	1.5	CH25803
Toluene 5/b	50 - 300 ppm 5 - 80 ppm	2 10	8101661
Toluene 50/a	50 - 400 ppm	1.5	8101701
Toluene 100/a	100 - 1,800 ppm	1.5	8101731
Toluene Diisocyanate 0.02/A (9)	0.02 - 0.2 ppm	20	6724501
Trichloroethane 50/d (5)	50 - 600 ppm	2	CH21101
Trichloroethylene 2/a	20 - 250 ppm 2 - 50 ppm	1.5 2.5	6728541
Trichloroethylene 50/a	50 - 500 ppm	1.5	8101881
Triethylamine 5/a	5 - 60 ppm	3	6718401
Vinyl Chloride 0.5/b	5 - 30 ppm 0.5 - 5 ppm	30 sec 3	8101721
Vinyl Chloride 100/a	100 - 3,000 ppm	4	CH19601
Water Vapour 0.1	1 - 40 mg/L	2	CH23401
Water Vapour 0.1/a	0.1 - 1.0 mg/L	1.5	8101321
Water Vapour 3/a	3.0 - -60 lbs/mmcf	90 sec	8103031
Water Vapour 1/b	20 - 40 mg/L 1 - 8 mg/L	20 sec 40 sec	8101781
Water Vapour 50/a	50 - 1000 l bs/mmcf	40 sec	8103021
Xylene 10/a	10 -400 ppm	1	6733161

² Tubes with 6 to 12 months shelf life

Dräger-Tubes® and MicroTubes

Dräger Diffusion Tubes Gas Detection Tubes

The Dräger Diffusion Tubes are direct reading systems used for the determination of time weighted average concentrations over the duration of one to eight hours.



Dräger-Tubes® and MicroTubes

Dräger-Tube Description	Standard range of measurement for 1 h (20 °C, 1013 hPa):	Packaging unit/type	Order No.
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Dräger Diffusion Tubes

Dräger diffusion tubes with direct indication

Ammonia 20/a-D	20 - 1500 ppm*hours 2.5 - 200 ppm for 8 hours	10/pkg	8101301
Butadiene 10/a-D	10 - 300 ppm*hours 1.3 - 40 ppm for 8 hours	10/pkg	8101161
Nitrogen Dioxide 10/a-D	10 - 200 ppm*hours 1.3 - 25 ppm for 8 hours	10/pkg	8101111

Dräger-Tubes® and MicroTubes

Dräger accuro Pump for Gas Detection Tubes

Fast measurement with one hand: The Dräger-Tube pump accuro allows you to use the established Dräger-Tubes to take measurements under extreme conditions. The easy-to-use Dräger-Tubes have already been calibrated and form a perfect unit with the Dräger-Tube pump.

Integrated end of stroke indicator

Clear indication when a stroke is ended

Integrated stroke counter

For easy monitoring of the number of strokes made

Integrated tube opener

Simple scoring of the tubes using blade for clean opening



Hard-wearing EPDM rubber housing

Robust rubber mixture for reliable operation

Pump bellows

Precise volumes for a long period of time

Pump bellows

Precise volumes for a long period of time

Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger accuro

Dräger accuro	Gas detector pump Dräger accuro and tube opener Dräger TO 7000	1 / box	6400000
Soft-Side accuro kit	accuro pump, tube opener, spare parts, allen tool, and nylon case	1 / box	8317186
Hard-Side accuro kit	accuro pump, tube opener, spare parts, allen tool, rubber caps and molded case	1 / box	4056443
Spare parts kit for Dräger accuro	6 x valve disc, 1 x window, 3 x membrane, 1 x insert and 1 x grommet	1 / box	6400220
Extension hose 1 m	Incl. adapter for Simultaneous Test Set	1 / box	6400561
Extension hose 3 m	Incl. adapter for tubes and adapter for hose in a carrying box	1 / box	6400077
Extension hose 10 m	Incl. adapter for tubes and adapter for hose	1 / box	6400078
Extension hose 15 m	Incl. adapter for tubes and adapter for hose	1 / box	6400079
Tube opener Dräger TO 7000		1 / box	6401200
Adapter for Dräger simultaneous test set	Incl. cutting holder and adapter	1 / box	6400090
Extension hose 30 m	*Contact product manager	1 / box	8325839
Hot Air Probe	Stack gas measurements up to 650 °C	1 / box	CH00213

Additional accessories upon request.

Technical Data

Dimensions (W x H x D)	170 x 45 x 85 mm (6.7 x 1.8 x 3.3 in)	
Stroke volume	100 ±5 cm ³	
Weight	220 – 250 g (8 - 9 oz)	
Ambient conditions	Temperature	-20 °C to +50 °C (-4 °F to +122 °F)
	Relative humidity	0 – 95 % non-condensing
Approvals	CE-certified (EN 0158)	
	ATEX	I M1
		II 1GD IIB 85°C T6
		II 2G IIC T6
DIN EN ISO	-20 °C ≤ Ta ≤ +50 °C	
	17621	

Dräger-Tubes® and MicroTubes

Dräger HazMat Simultest Kit

The Dräger HazMat Simultest Kit is designed to quickly determine the presence of inorganic and organic gases and vapors. The Simultaneous Test Sets I, II & III consist of five tube sets to detect toxic substances generated from burning combustible materials, flammable liquids or flammable gases and substances evolving from a chemical leak or spill.



D-31344-2011

Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger HazMat Simultest Kit**HazMat Simultest Kit**

Includes: accuro® bellows pump with individual tube opener, spare parts, Simultaneous Set I (3 each), Simultaneous Set II (3 each), and Simultaneous Set III (4 each), simultaneous test set opener, 1-meter extension hose with 5-tube adapter, air current kit and laminated instruction cards with full color graphics.

A rugged Pelican carrying case protects the kits contents.

HazMat Simultest Kit			4056098
HazMat Simultest Carrying Case with foam inserts only			4056458

Space is provided in the kit for 6 additional boxes of standard Dräger-Tubes®. Dräger provides over 250 different chemical specific short term tubes for detection of over 1,000 chemicals.

Test Set Information

Simultaneous Test Set I Detects acid gases (e.g. hydrochloric acid, nitric acid), hydrocyanic acid, carbon monoxide, basic type gases (e.g. ammonia, butylamine) and nitrous gases (NO & NO ₂)			8101735
Simultaneous Test Set II Detects sulfur dioxide, chlorine, hydrogen sulfide, carbon dioxide and phosgene.			8101736
Simultaneous Test Set III Detects organics: ketones (e.g. acetone, MEK), aromatics (e.g. benzene, toluene), alcohols (e.g. methanol, ethanol), aliphatic hydrocarbons (e.g. n-hexane, n-octane) and chlorinated hydrocarbons (e.g. perchloroethylene, trichloroethylene)			8101770

Accessories

Extension hose 1 m	Incl. adapter for Simultaneous Test Set	1 / box	6400561
Extension hose 1 m	Incl. adapter for Tube opener TO 7000	1 / box	6401200

Dräger-Tubes® and MicroTubes

Dräger Civil Defense Simultest (CDS)

The Dräger CDS Kit uses specialized Dräger simultaneous tube sets to quickly and reliably detect the presence of nerve, blister, blood and choking agents.



Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger Civil Defense Simultest Kit**Civil Defense Simultest Kit**

Includes: accuro bellows pump with tube opener (2), spare parts, Civil Defense Simultest Set I (5), Civil Defense Simultest Set V (5) and 1-meter extension hose with 5-tube adapter (2).
A rugged Pelican carrying case protects the kits contents.

Civil Defense Simultest Kit	4523130
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Space is provided in the kit for 6 additional boxes of standard Dräger-Tubes®. Dräger provides over 250 different chemical specific short term tubes for detection of over 1,000 chemicals.

Test Set Information

CDS Simultaneous Set I detects Thioether (S-Mustard) Phosgene Hydrocyanic Acid Organic Arsenic Compounds & Arsine (Lewisite) Organic Basic Nitrogen Compounds (N-Mustard)	8103140
Simultaneous Set V detects Cyanogen Chloride Thioether (S-Mustard) Phosgene Chlorine Phosphoric Acid Esters (Nerve agents e.g. GA, GB, GD)	8103200

Accessories

Extension hose 1 m	Incl. adapter for Simultaneous Test Set	1 / box	6400561
Extension hose 1 m	Incl. adapter for Tube opener TO 7000	1 / box	6401200

Dräger-Tubes® and MicroTubes

Dräger Simultaneous Test Sets Gas Detection Tubes

Risks and potential dangers at a glance: The Simultaneous Test Sets allow the measurement of five different gases at the same time.



ST-6728-2006

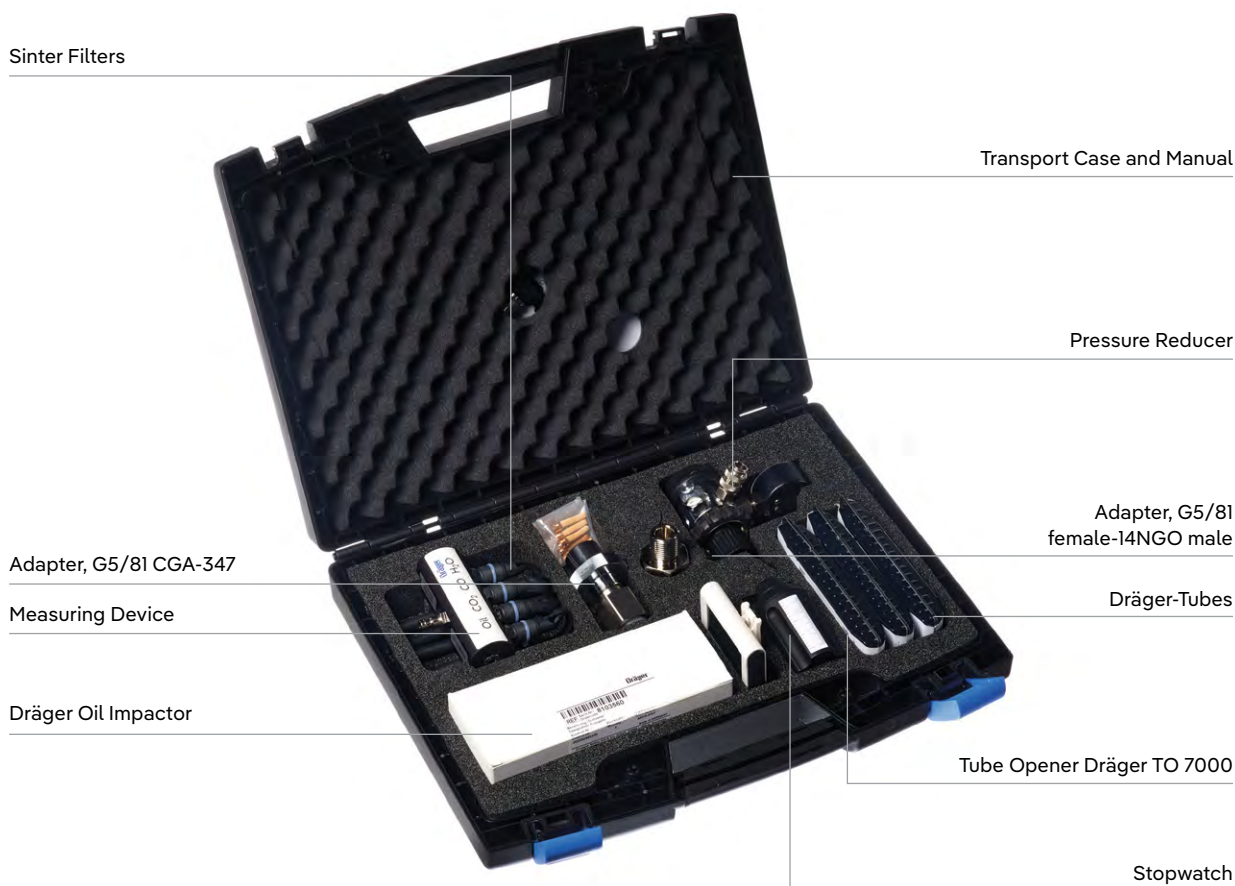
Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
Dräger Simultaneous Test Sets			
Simultest Set I (inorganic gases)	Detection of: acid gases, basic gases, carbon monoxide, hydrocyanic acid & nitrous gases (NO & NO ₂)	5 / set	8101735
Simultest Set II (inorganic gases)	Detection of: phosphine, chlorine, hydrogen sulfide, phosgene & sulfur dioxide	5 / set	8101736
Simultest Set III (organic gases)	Detection of: alcohols, aliphatic hydrocarbons, aromatics, chlorinated hydrocarbons & ketones	5 / set	8101770
Civil Defense Simultest Set I	Detection of: S-mustard, phosgene, hydrogen cyanide, lewisite & N-mustard	5 / set	8103140
Civil Defense Simultest Set V	Detection of: nerve agent, phosgene, cyanogen chloride, chlorine & S-mustard	5 / set	8103200
Clan Lab Simultest Set	Detection of: phosphine, phosgene, ammonia, hydrochloric acid & iodine	5 / set	8103310
Simultaneous Test Set-Fumigation I	Detection of: ammonia, methyl bromide, hydrocyanic acid, phosphine & formaldehyde	5 / set	8103410
Simultaneous Test Set-Fumigation II	Detection of: formaldehyde, phosphine, hydrocyanic acid, methyl bromide & ethylene oxide	2 sets of 5 / set	8103380
Accessories			
Extension hose 1 m	Incl. adapter for Simultaneous Test Set	1 / box	6400561

Dräger-Tubes® and MicroTubes

Dräger Aerotest® Simultan HP

Dräger Aerotest® Simultan HP is used to determine the quality of respiratory air in high-pressure applications. Quantitative measurements for CO, CO₂, H₂O and condensed oil / lubricants in breathing apparatus cylinders and compressors are accomplished in minutes.



Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger Aerotest Simultan HP**Dräger Aerotest Simultan HP**

Comprised of one high pressure reducer, CGA-347 adapter, measuring device for 4 Dräger-Tubes impactor adapter, stopwatch, tube opener Dräger TO 7000, bubble test hose, instruction for use, transport case, kit w/o Dräger-Tubes			6525980
Dräger Simultan HP <u>complete</u> with Dräger Tubes:			6525990
pack of 10 Dräger Oil Impactors			8103560
box of 10 Dräger-Tubes, CO ₂ 100/a-P			6728521
box of 10 Dräger-Tubes CO 5/a-P			6728511
box of 10 Dräger-Tubes H ₂ O 20/a-P			8103061
Adapter, oil impactor			8103557
Measuring arrangement (4), HP			6525927

Technical Data

Dimensions [L x W x H, mm]	350 x 300 x 85 (13.8 x 11.8 x 3.3 in)
Weight [kg]	approx. 3.0 (6.6 lbs)
Supply Pressure [bar]	Max. 4,500 psi
Connection	CGA-347
Flow [L/min]	0.2 and 4.0

Oxygen Measurement

T-piece (tubing not included) Tubing size 3/16 inch (5 mm) ID made of FKM, EPDM or rubber)	6525971
pack of 10 Dräger-Tubes O ₂ 5%/C	8103261
Dräger accuro hand pump	6400000

Dräger-Tubes® and MicroTubes

Dräger Aerotest® Alpha Dräger-Tubes®

The Dräger Aerotest® Alpha is the instrument of choice for monitoring the purity of breathing air in the low pressure range. In combination with the Dräger Oil Impactor, the system achieves an unprecedented quality of breathing air monitoring.



Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger Aerotest Alpha**Dräger Aerotest Alpha**

Comprising of 1 pressure reducer, measuring device for 4 Dräger-Tubes®, impactor adapter, coupling, barbed nipple, stopwatch, tube opener Dräger TO 7000, bubble test hose, instruction for use, transport case (black), kit without Dräger-Tubes			6527149
Dräger Alpha <u>complete</u> with Dräger-Tubes:			6527150
pack of 10 Dräger Oil Impactors			8103560
box of 10 Dräger-Tubes, CO2 100/a-P			6728521
box of 10 Dräger-Tubes CO 5/a-P			6728511
box of 10 Dräger-Tubes H2O 20/a-P			8103061
Adapter, oil impactor			8103557
Measuring arrangement (4), Alpha			6527325

Technical Data

Dimensions [L x W x H, mm]	350 x 300 x 85 (13.8 x 11.8 x 3.3 in)
Weight, including contents	approx. 3.0 kg
Max. supply pressure	15 bar
Pressure gauge	0.3 to 15 bar
Connection for compressed air supply, barbed nipple	9 mm
Supply pressure (set on delivery)	3.0 bar
Flow rate	0.2 and 4.0 l/min

Oxygen Measurement

T-piece (tubing not included) Tubing size 3/16 inch (5 mm) ID made of FKM, EPDM or rubber)	6525971
pack of 10 Dräger-Tubes O2 5%/C	8103261
Dräger accuro hand pump	6400000

Dräger-Tubes® and MicroTubes

Dräger MultiTest med. Int. Gas Detection Tubes

Designed to meet the requirements of medical supply systems, the Dräger MultiTest med. Int. checks the purity of medical gases. A single test system is all that is needed to detect contaminants in compressed air, nitrous oxide, carbon dioxide and oxygen.

Transport Case

Adapter for oil impactor

Adapter

Instructions for use

Measuring Device

Stopwatch

Dräger-Tubes

Oil Impactor

Tube opener
Dräger TO 7000

Pressure regulator



Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger MultiTest med. Int.**Dräger MultiTest med. Int.**

Dräger MultiTest med. Int. (Impactor and tubes not included) comprising of 1 O ₂ pressure regulator, measuring device for 7 tubes, impactor adapter, NIST connector, closing coupling, stopwatch, tube opener Dräger TO 7000, bubble test hose, instruction for use, transport case (blue), kit without Dräger-Tubes			6527319
Dräger MultiTest med. Int. <u>complete</u> with Dräger-Tubes:			6520260
pack of 10 Dräger Oil Impactors,			8103560
box of 10 Dräger-Tubes carbon dioxide (CO ₂) 100/a-P,			6728521
box of 10 Dräger-Tubes carbon monoxide (CO) 5/a-P,			6728511
box of 10 Dräger-Tubes nitrous gases (NOX) 0.2/a,			8103661
box of 10 Dräger-Tubes sulfur dioxide (SO ₂) 0.5/a,			6728491
box of 10 Dräger-Tubes hydrogen sulfide (H ₂ S) 1/d,			8101831
box of 10 Dräger-Tubes water vapor (H ₂ O) 20/a-P			8103061
Adapter, oil impactor			8103557
Measuring arrangement (7), MultiTest med. Int.			6527321

Technical Data

Dimensions of carrying case (L x W x H)	400 x 300 x 91 mm (15.8 x 11.8 x 3.6 in)
Weight, including contents	approx. 3.0 kg (6.6 lbs)
Max. supply pressure	20 bar (290 psi)
Supply pressure (set on delivery)	3.0 bar
Connection for compressed air supply	9 mm barbed nipple
Flow rate	0.2 and 4.0 (l/min.)

Oxygen Measurement

T-piece (tubing not included) Tubing size 3/16 inch (5 mm) ID made of FKM, EPDM or rubber)	6525971
pack of 10 Dräger-Tubes O ₂ 5%/C	8103261
Dräger accuro hand pump	6400000

Dräger-Tubes® and MicroTubes

Dräger Aerotest® SimultanTest CO₂ Gas Detection Tubes

The Dräger SimultanTest CO₂ allows the purity of carbonic acid to be measured in the 3 bar low pressure range.



Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger SimultanTest CO₂**Dräger SimultanTest CO₂**

Dräger SimultanTest CO ₂ : (Impactor and tubes not included) comprising of 1 O ₂ pressure regulator, measuring device for 7 tubes, closing coupling (G 1/4), stopwatch, tube opener Dräger TO 7000, instruction for use, transport case (blue), kit without Dräger-Tubes	6526743
Dräger SimultanTest CO₂ complete with Dräger-Tubes:	6526170
box of 10 Dräger-Tubes nitrous gases (NOX) 0.2/a,	8103661
box of 10 Dräger-Tubes ammonia (NH ₃) 2/a,	6733231
box of 10 Dräger-Tubes phosphine (PH ₃) 0.1/c,	8103711
box of 10 Dräger-Tubes carbon monoxide (CO) 5/a-P,	6728511
box of 10 Dräger-Tubes sulfur dioxide (SO ₂) 1/a,	CH31701
box of 10 Dräger-Tubes hydrogen sulfide (H ₂ S) 0.2/a,	8101461
box of 10 Dräger-Tubes water vapor (H ₂ O) 5/a-P,	6728531
Measuring arrangement (7), CO ₂	6526744

Technical Data

Dräger SimultanTest CO ₂	
Dimensions of carrying case (L x W x H)	350 x 300 x 85 mm (13.8 x 11.8 x 3.3 in)
Weight, including contents	ca. 3.0 kg (6.6 lb)
Min/Max. supply pressure	3 to 20 bar (43.5 to 290 psi)
Connections	Quick-lock coupling (external thread G 1/4)
Connection for compressed air supply	9 mm barbed nipple
Flow rate	0.2, 0.8 and 2.0 l/min

Dräger-Tubes® and MicroTubes

Dräger Flow Check Air Flow Indicator

The Dräger Flow Check air current indicator produces a harmless cloud of smoke that floats freely and easily, because it has the same density as ambient air. Consequently, slight air currents become visible to easily identify leaks and test the integrity of air-tight systems.



ST-66-98

Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger Flow Check**Dräger Flow Check**

Air flow indicator with one pack of 3 ampoules, battery pack and charger, packaged in a rigid plastic case.

6400761

Accessories

Flow Check ampoules (3 ampoules and 1 nozzle)	3 / box	6400812
Battery Charger 110 VAC	1 / box	3703625
Battery pack	1 / box	6400817

Technical Data

Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)
Smoke Time per Ampoule	approx. 3 min
Operating Time per Battery Charge	approx. 20 min
Ni-Cd rechargeable Battery	7.2 V; 1.4 Ah
Charging current	700 mA
Dimensions	approx. 300 mm x 200 mm x 70 mm (11.8 in x 7.8 in x 2.8 in)
Weight	approx. 500 g (1.1 lbs.)

**Dräger Air-flow tester****Dräger Air-flow tester**

Air-flow tester	Air-flow tester kit contained in a carrying box, comprising an Aspirator bulb, air flow, test tubes (10 pieces) and rubber cups.	CH00216
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Accessories

Air-flow test tubes (pack of 10)	CH25301
Aspirator bulb	4054382
Package of 10 rubber cups	CH16631

Dräger-Tubes® and MicroTubes

Dräger X-act® 7000 Multi-Gas Detector

The innovative Dräger X-act® 7000 analysis system consists of Dräger MicroTubes and an opto-electronic analysis device that lets you precisely measure gases in the low ppb range. It gives you precise results right on site, replacing slow, expensive lab analyses. It's extremely easy to use: insert the Dräger MicroTubes, start measuring, then read out the test result.



Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
Pump accessories			
Dräger X-act® 7000 Coupler		1 / box	8610810
Dräger X-am® Pump		1 / box	8327115
Dräger X-act 7000® Device		1 / box	8610800
Other accessories			
Dräger X-act® 7000 Pre-tube holder		1 / box	3701985
Dräger Tubes® ppb-Booster Basic		10 / box	3702013
H2S filter pre-tube for use with Mercury MicroTube		10 / box	3716630
Tube opener, TO 7000		1 / box	6401200
Alkaline batteries		5 / box	3703133
“Silver” Sticker Set, 5 pieces		5 / box	8327645
“Blue” Sticker Set, 5 pieces		5 / box	8327646
“Red” Sticker Set, 5 pieces		5 / box	8327647
“Green” Sticker Set, 5 pieces		5 / box	8327648
“Yellow” Sticker Set, 5 pieces		5 / box	8327649
Carry case, 470 x 365 x 190 mm, black		1 / box	3703690
Display protector film (3 pcs.)		3 / box	8326828
Dust and water filter for pump inlet		1 / box	8319364
Filter Set, 20 pieces per pack (no Luer adaptors)		20 / box	3705997
AA battery		5/pkg	3703133
Probes			
Rigid probe set, GP 600 (50 cm / 20 in) with 1 m / 39 in FKM hose		1 / box	8328667
Flexible, semi-rigid probe (70 cm / 27 in) with 1 m / 39 in FKM hose		1 / box	8316531
Rigid fiberglass probe (90 cm / 35 in) with 1 m / 39 in FKM hose		1 / box	8316532
ESI50 Telescopic probe (max. length: 150 cm / 59 in)		1 / box	8316533
Hoses			
PTFE-lined PVC hose, 3 m (9.8 ft)		1 / box	8326980
PTFE-lined PVC hose, 15 m (49.2 ft)		1 / box	4594679
Replacement hose for probes, 2 m (6.6 ft)		1 / box	8318205
FKM hose, inner diameter: 3.2 mm, length: 5 m (16.4 ft)		1 / box	8325705
FKM hose, inner diameter: 3.2 mm, length: 10 m (32.8 ft)		1 / box	8325706
FKM hose, inner diameter: 3.2 mm, length: 20 m (65.6 ft)		1 / box	8325707
FKM hose, inner diameter: 3.2 mm, length: 45 m (147.6 ft)		1 / box	8328212
Hose connector, outer diameter: 5 mm (10 pcs.)		10 / box	8320087
Adapter			
Luer Adapter Set 3 + 5 mm		1 / box	8328213

Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
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Dräger X-act® 7000**Dräger X-act® 7000**

Consisting of: Basic device X-act® 7000 incl. batteries, shoulder strap complete, MicroTube Demo, Torx T10 screwdriver, USB cable 2 m with Mini-connection

8610800

Dräger MicroTubes*

Acetic Acid	Test Range: 2-50 ppm Test time: 20-170 seconds	10 / pkg	8610330
Acetone	Test Range: 25 - 5,000 ppm Test time: 20 - 500 seconds	10 / pkg	8610470
Alcohol (Methanol)	Test Range: 10 - 5,000 ppm Test time: 20 - 450 seconds	10 / pkg	8610380
Alcohol (Ethanol)	Test Range: 5 - 2,500 ppm Test time: 20 - 450 seconds	10 / pkg	8610380
Alcohol (i-Propanol)	Test Range: 10 - 5,000 ppm Test time: 20 - 450 seconds	10 / pkg	8610380
Alcohol (n-Butanol)	Test Range: 7 - 3,330 ppm Test time: 20 - 450 seconds	10 / pkg	8610380
Ammonia	Test Range: 1 - 100 ppm Test time: 10 - 75 seconds	10 / pkg	8610130
Ammonia	Test Range: 100 - 2,500 ppm Test time: 3 - 45 seconds	10 / pkg	8610020
Benzene ^{1,2}	Test Range: 1 - 150 ppb Test time: 100 - 900 seconds	10 / pkg	8610600 ¹
Benzene ¹	Test Range: 0.15 - 10 ppm Test time: 25 - 150 seconds	10 / pkg	8610030 ¹
Benzene	Test Range: 10 - 100 ppm Test Time: 10 - 75 seconds	10 / pkg	8610280
1,3-Butadiene ²	Test Range: 25 - 500 ppb Test time: 200 - 600 seconds	10 / pkg	8610460
1,3-Butadiene	Test Range: 0.5 - 25 ppm Test time: 10 - 280 seconds	10 / pkg	8610300
Carbon Dioxide	Test Range: 200 - 50,000 ppm Test time: 2 - 120 seconds	10 / pkg	8610190
Carbon Monoxide	Test Range: 2 - 1,000 ppm Test time: 5 - 300 seconds	10 / pkg	8610080
Chlorine	Test Range: 50 - 5,000 ppb Test time: 10 - 400 seconds	10 / pkg	8610010
Demo	Test Range: NA Test time: approx. 30 seconds	10 / pkg	8610290
Ethylene oxide	Test Range: 25 - 250 ppb Test time: 150 - 600 seconds	10 / pkg	8610200

Dräger-Tubes® and MicroTubes

Product	Description	Packaging unit/type	Order No.
Ethylene oxide	Test Range: 0.25 – 10 ppm Test time: 100 – 500 seconds	10 / pkg	8610580
Formaldehyde	Test Range: 5 – 150 ppb Test time: 360 – 960 seconds	10 / pkg	8610540
Formaldehyde	Test Range: 0.15 – 3 ppm Test time: 300 – 600 seconds	10 / pkg	8610100
Hydrochloric Acid	Test Range: 0.5 - 25 ppm Test time: 10 - 100 seconds	10 / pkg	8610090
Hydrocyanic Acid	Test Range: 0.5 - 50 ppm Test time: 20 - 180 seconds	10 / pkg	8610520
Hydrogen Sulfide	Test Range: 0.1 - 50 ppm Test time: 5 - 960 seconds	10 / pkg	8610050
Hydrogen Sulfide	Test Range: 100 - 2,000 ppm Test Time: 15 - 180 seconds	10 / pkg	8610220
Mercaptan	Test Range: 50 - 6,000 ppb Test time: 15 - 360 seconds	10 / pkg	8610360
Mercury ³	Test Range: 0.005 – 0.25 mg/m ³ Test time: 240 – 1,200 seconds	10 / pkg	8610350
Methylene Chloride ²	Test Range: 10-500 ppm Test time: 180-720 seconds	10 / pkg	8610510
MTBE	Test Range: 2 - 200 ppm Test Time: 60 - 450 seconds	10 / pkg	8610530
Nitrogen Dioxide	Test Range: 0.25 - 50 ppm Test time: 10 - 210 seconds	10 / pkg	8610120
Nitrous Fumes	Test Range: 0.25 - 50 ppm Test time: 5 - 120 seconds	10 / pkg	8610060
Ozone	Test Range: 10 - 1,000 ppb Test Time: 50 - 840 seconds	10 / pkg	8610430
Perchloroethylene	Test Range: 1 - 500 ppm Test time: 25 - 240 seconds	10 / pkg	8610040
Petroleum Hydrocarbons	Test Range: 10 - 300 ppm Test time: 10 - 360 seconds	10 / pkg	8610270
Phosgene	Test Range: 10 - 1,000 ppb Test time: 10 - 300 seconds	10 / pkg	8610340
Phosphine	Test Range: 50 - 5,000 ppb Test time: 20 - 95 seconds	10 / pkg	8610400
Sulfur Dioxide	Test Range: 0.05 - 5 ppm Test time: 20 - 480 seconds	10 / pkg	8610110

Dräger-Tubes® and MicroTubes

Toluene ¹	Test Range: 10 - 1,000 ppm Test time: 6 - 360 seconds	10 / pkg	8610250 ¹
Trichloroethylene	Test Range: 0.25 - 50 ppm Test Time: 20 - 270 seconds	10 / pkg	8610320
Vinyl Chloride	Test Range: 0.1 - 10ppm Test Time: 15 - 660 seconds	10 / pkg	8610230
Xylene ¹	Test Range: 10 - 1,000 ppm Test time: 10 - 240 ppm	10 / pkg	8610260 ¹

Each MicroTube offers 10 tests

All MicroTubes have a 12 month shelf life

¹MicroTubes to be stored at or below 50 °F; do not freeze

²MicroTubes requiring the ppb booster tube

³Use with the Hydrogen Sulfide pre-tube

Technical Data

Dimensions (L x W x H)	195 mm x 85 mm x 70 mm (7.7 in x 3.3 in x 2.8 in)
Measuring range and resolution	Varies, depending on the Dräger MicroTubes in use
Typical testing time	From 5 seconds to 1,200 seconds, depending on the Dräger MicroTubes in use and the concentration of the test substance.
Ready to use	Immediately
Calibration	Not necessary
Operating temperature	0 to +50 °C (+32 to +122 °F)
Storage temperature	-20 to +55 °C (-4 to +131 °F) (Analyzer) +4 to +25 °C (+39 to +77 °F) (Dräger MicroTubes)
Air pressure	cCSAus, IECEx, ATEX, CE
Humidity	0 to 95 % relative humidity, non-condensing
Recording of measured data	CMOS sensor optics and LED light
System diagnostics	Automatic, using micro-controllers for all system components
Display	2.4 inch high contrast, color display with a resolution of 240 x 320, viewing angle of 160°
Menu languages	30
Operating time	Approx. 600 minutes of testing time
Power supply	5 x 1.5 v AA alkaline batteries; refer to the IFU for approved types
Approvals	ATEX/IECEx, II 1G Ex IIC T4 Ga cCSAus, Class I, Zone 0, AEx ia IIC T4 Ga
Protection class	IP54, dust- and splash-resistant

Respiratory products from Dräger



Protection that goes beyond your mask

Dräger is synonymous with professional respiratory protection world-wide. We not only offer a complete range of compatible air purifying respiratory protection products but are your partner when it comes to questions regarding occupational safety and health.

Dräger is always the right partner – not only when it comes to masks, filters, compressed airline systems, self-contained breathing apparatuses and escape devices, but also a world-wide sales and service network – Dräger is able to offer you the most extensive support available.

This includes support in service, maintenance, repair and cleaning of the Dräger products as well as the speedy supply of spare parts – no matter where you are. In addition, the Dräger Safety Academy offers an extensive training program. Competent advice for the correct use of filters or for the selection of a suitable respiratory protection is certainly also part of our comprehensive service portfolio.

Our high demands on quality and service as well as the alignment with the needs of our customers result in durable products for your daily working routine. Pursuant to this our long-term product concepts guarantee reliable fulfilment of demands and spare parts supply in the future.

All this makes Dräger a reliable partner of the industry in every respect. On your request we develop comprehensive safety concepts and solutions far beyond the individual products. This can also include financing solutions, as leasing and financing are a part of our service portfolio. This is a part of our integral service concept.

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Terms & Conditions

1. Scope of Application, General

- 1.1 Any delivery of goods and provision of services (hereinafter collectively "Goods") by Dräger* to the Customer, with the exception of construction works shall be subject to these General Terms and Conditions ("GTC") set forth herein. These GTC form a constituent part of all offers, orders and agreements between Dräger and the Customer.
- 1.2 Deviating terms and conditions - unless agreed to in writing - do not apply. Dräger and the Customer may agree to terms and conditions deviating from these GTC, such terms shall then have priority over these GTC. These GTC apply even if Dräger provides the Goods with knowledge but without actual acceptance of deviating terms and conditions of the Customer.
- 1.3 Dräger provides construction works in accordance with the German Standard Building Contract Terms, Part B (Verdingungsordnung für Bauleistungen, Teil B - "VOB/B"). The VOB/B shall be supplemented in a subordinate manner by Sections 2.2, 3, 4, 6 and 11 to 13 of these GTC.

2. Scope of Performance

- 2.1 Offers by Dräger shall always be non-binding. Orders shall be deemed accepted only if Dräger confirms same or carries out the order.
- 2.2 The offer by Dräger shall govern the scope of performance. Statements as to weight and measurements in brochures and offers are according to best knowledge but are not guaranteed properties (Beschaffenheitsgarantie). The right to reasonable performance and construction modifications is reserved. The functions of software shall be limited to the description in the performance specifications. To the extent reasonably acceptable to the Customer Dräger may use components that are as good as new or that have been rendered as good as new.
- 2.3 Technical norms serve as performance specification only, provided Dräger does not expressly provide a guarantee in the form of a full guarantee for compliance with such technical norm. Guarantees as to properties (Beschaffenheitsgarantie) or shelf life (Haltbarkeitsgarantie) must be in writing.
- 2.4 Dräger shall retain, without limitation, any and all ownership rights, copyrights and industrial property rights in drawings, technical documents and other data, information and documentation in material or immaterial form, including in electronic form; these may not be disclosed to third parties without written consent.
- 2.5 In case of resale of Goods the Customer is responsible to comply with all applicable export rules and regulations. The Customer shall defend and indemnify Dräger from all costs and claims based on the violation of export rules and regulations by the Customer."

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