

DrägerTubes® & accuro® Pump

Ever since 1937 when we introduced our first detector tube, Dräger has been the world leader in the analysis of gases and vapors in the industrial workplace. Over the years we have developed more tubes and detection devices for more applications than anyone else!



ST-3805-2003

Our leading edge technology has kept us on the forefront of colorimetric detector tubes thus providing the most accurate and specific results available.

ACCURATE

Not all detector tubes are created equal! DrägerTubes® with the accuro® pump deliver the most accurate results. Many DrägerTubes® offer a +/- 10% standard deviation on the results. This is a result of our 70+ years of manufacturing colorimetric tubes and the consistent volume delivered by the bellows pump design. Quality assurance is accomplished by individually calibrating each batch of DrägerTubes®. Then every batch is tested at regular intervals, throughout the two year shelf life, to guarantee accuracy over the entire life of the tubes.

EASY TO READ

See the difference for yourself! The wider diameter of the DrägerTubes® makes it easier to read. Well-spaced graduation marks enable distinct and decisive measurement results. Color changes to the reagents are well defined over the entire length of the stain. Many

tubes offer a dual calibrated scale so that you can interpret the results without using multiplication factors.

FAST

One stroke tubes are not always faster! Though many DrägerTubes® require more than one stroke, they often provide measurement results in less time. Not only do you get the benefit of a quicker analysis, the larger sample volume provides better statistical accuracy.

FLEXIBLE

DrägerTubes® simply deliver more! More gases and more measuring ranges than any other manufacturer. Dräger offers over 200 tubes for accurately measuring over 500 different gases. You can measure ambient air for health and safety levels and optional equipment allows you to measure stack gases, motor vehicle exhaust components, pressurized gas line samples and contaminants in compressed air and other technical gases. Other specialized tubes measure over a period of hours or a complete work shift to indicate daily exposure levels.

SPECIFIC

Reagents used in DrägerTubes® are chosen to provide not only the most accurate, but also most specific results possible. Our use of prelayers on many tubes (like benzene) remove other potential interfering gases (e.g. aromatic hydrocarbons) so you measure only the targeted chemical, getting only the results you want. This design enables you to measure specific gases in a complex ambient background found in the measurement area.



2-816-92_2

Most Trusted
DrägerTubes® have been
leading the way in gas
detection for over 70 years.

WHAT IS THE DRAEGER-TUBE® SYSTEM?

DrägerTubes® are glass vials filled with a chemical reagent that reacts to a specific chemical or family of chemicals. A calibrated 100 ml sample of air is drawn through the tube with the Dräger accuro® bellows pump. If the targeted chemical(s) is present the reagent in the tube changes color and the length of the color change typically indicates the measured concentration. The DrägerTubes® System is the world's most popular form of gas detection.

DRÄGER SHORT-TERM DETECTION TUBES

Dräger-Tube®	Measuring Range	Part No.	Dräger-Tube®	Measuring Range	Part No.
Acetaldehyde 100/a	100-1,000 ppm	67 26 665	Chlorobenzene 5/a (5)	5-200 ppm	67 28 761
Acetic Acid 5/a	5-80 ppm	67 22 101	Chloroform 2/a (5)	2-10 ppm	67 28 861
Acetone 40/a	40-800 ppm	81 03 381	Chloroformates 0.2/b	0.2-10 ppm	67 18 601
Acetone 100/b	100-12,000 ppm	CH 22 901	Chloropicrin 0.1/a	0.1-2 ppm	81 03 421
Acid Test	Qualitative	81 01 121	Chloroprene 5/a	5-60 ppm	67 18 901
Acrylonitrile 0.5/a (5)	0.5-20 ppm	67 28 591	Chromic Acid 0.1/a (9)	0.1-0.5 mg/m ³	67 28 681
Air Current Tube Kit		40 54 388	Cyanide 2/a	2-15 mg/m ³	67 28 791
Air Current Tubes		CH 25 301	Cyanogen Chloride 0.25/a	0.25-5 ppm	CH 19 801
Alcohol 25/a	50-4,000 ppm Isopropanol 25-5,000 ppm Methanol	81 01 631	Cyclohexane 100/a	100-1,500 ppm	67 25 201
Alcohol 100/a	100-3,000 ppm	CH 29 701	Cyclohexylamine 2/a	2-30 ppm	67 28 931
Amine Test	Qualitative	81 01 061	Dichloropropene 0.1/a	0.1-10 ppm	81 03 551
Ammonia 0.25/a	0.25-3 ppm	81 01 711	Diesel Fuel	25-200 mg/m ³	81 03 475
Ammonia 2/a	2-30 ppm	67 33 231	Diethyl Ether 100/a	100-4,000 ppm	67 30 501
Ammonia 5/b	2.5-100 ppm	81 01 941	Dimethyl Formamide 10/b	10-40 ppm	67 18 501
Ammonia 5/a	5-700 ppm	CH 20 501	Dimethyl Sulfate 0.005/c (9)	0.005-0.05 ppm	67 18 701
Ammonia 0.5%/a	0.05-10 Vol.%	CH 31 901	Dimethyl Sulfide 1/a (5)	1-15 ppm	67 28 451
Aniline 0.5/a	0.5-10 ppm	67 33 171	Epichlorohydrin 5/c	5-80 ppm	67 28 111
Aniline 5/a	1-20 ppm	CH 20 401	Ethyl Acetate 200/a	200-3,000 ppm	CH 20 201
Arsine 0.05/a	0.05-60 ppm	CH 25 001	Ethyl Benzene 30/a	30-600 ppm	67 28 381
Benzene 0.5/a	0.5-10 ppm	67 28 561	Ethylene 0.1/a (5)	0.2-5 ppm	81 01 331
Benzene 0.5/c (5) specific	0.5-10 ppm	81 01 841	Ethylene 50/a	50-2,500 ppm	67 28 051
Benzene 2/a (5)	2-60 ppm	81 01 231	Ethylene Glycol 10 (5)	10-180 mg/m ³	81 01 351
Benzene 5/b	5-50 ppm	67 28 071	Ethylene Oxide 1/a (5)	1-15 ppm	67 28 961
Benzene 15/a	15-420 ppm	81 01 741	Ethylene Oxide 25/a	25-500 ppm	67 28 241
Carbon Dioxide 100/a	100-3,000 ppm	81 01 811	Ethyl Formate 20/a	20-500 ppm	81 03 541
Carbon Dioxide 0.1%/a	0.1-6 Vol.%	CH 23 501	Ethyl Glycol Acetate 50/a	50-700 ppm	67 26 801
Carbon Dioxide 0.5%/a	0.5-10 Vol.%	CH 31 401	Fluorine 0.1/a	0.1-2 ppm	81 01 491
Carbon Dioxide 1%/a	1-20 Vol.%	CH 25 101	Formaldehyde 0.2/a	0.2-5 ppm	67 33 081
Carbon Dioxide 5%/A	5-60 Vol.%	CH 20 301	Formaldehyde Activation tube (for use only in conjunction with 0.2/a tube)	extend to 0.04 ppm	81 01 141
Carbon Disulfide 3/a	3-95 ppm	81 01 891	Formaldehyde 2/a	2-40 ppm	81 01 751
Carbon Disulfide 30/a	32-3,200 ppm	CH 23 201	Formic Acid 1/a	1-15 ppm	67 22 701
Carbon Monoxide 2/a	2-300 ppm	67 33 051	Halogenated Hydrocarbons 100/a	100-2,800 ppm	81 01 601
Carbon Monoxide 5/c	5-700 ppm	CH 25 601	Hexane 100/a	50-3,000 ppm	67 28 391
Carbon Monoxide 8/a (only for CO in H ₂)	8-150 ppm	CH 19 701	Hydrazine 0.01/a	0.01-6 ppm	81 03 351
Carbon Monoxide 10/b	10-3,000 ppm	CH 20 601	Hydrazine 0.25/a	0.1-10 ppm	CH 31 801
Carbon Monoxide 10/d	10-3,000 ppm	81 03 321	Hydrocarbons 0.1%/c	0.1-1.3 Vol. %	81 03 571
Carbon Monoxide 0.3%/b	0.3-7 Vol.%	CH 29 901	Hydrocarbons 2/a	2-24 mg/l	81 03 581
Carbon Pretubes		CH 24 101	Hydrochloric Acid 0.2/a	0.2-20 ppm	81 03 481
Carbon Tetrachloride 0.1/a	0.1-5 ppm	81 03 501	Hydrochloric Acid 1/a	1-10 ppm	CH 29 501
Carbon Tetrachloride 1/a (5)	1-15 ppm	81 01 021	Hydrochloric Acid 50/a	50-5,000 ppm	67 28 181
Carbon Tetrachloride 5/c	5-50 ppm	CH 27 401	Hydrochloric Acid/Nitric Acid 1/a 1-15 ppm (HNO ₃)	1-10 ppm (HCL)	81 01 681
Chlorine 0.2/a	0.2-30 ppm	CH 24 301	Hydrocyanic Acid 2/a	2-150 ppm	CH 25 701
Chlorine 0.3/b	0.3-10 ppm	67 28 411	Hydrogen 0.2%/a	0.2-2 Vol. %	81 01 511
Chlorine 50/a	50-500 ppm	CH 20 701			
Chlorine Dioxide 0.025/a	0.025-3 ppm	81 03 491			



Dräger-Tube®	Measuring Range	Part No.	Dräger-Tube®	Measuring Range	Part No.
Hydrogen Fluoride 0.5/a	0.5-90 ppm	81 03 251	Perchloroethylene 2/a	2-300 ppm	81 01 501
Hydrogen Peroxide 0.1/a	0.1-3 ppm	81 01 041	Perchloroethylene 10/b	10-500 ppm	CH 30 701
Hydrogen Sulfide 0.2/a	0.2-5 ppm	81 01 461	Petroleum Hydrocarbons 10/a	10-300 ppm (n-Octane)	81 01 691
Hydrogen Sulfide 0.2/b	0.2-6 ppm	81 01 991	Petroleum Hydrocarbons 100/a	100-2,500 ppm (n-Octane)	67 30 201
Hydrogen Sulfide 0.5/a	0.5-15 ppm	67 28 041	Phenol 1/b	1-20 ppm	81 01 641
Hydrogen Sulfide 1/d	1-200 ppm	81 01 831	Phosgene 0.02/a	0.02-1 ppm	81 01 521
Hydrogen Sulfide 2/a	2-200 ppm	67 28 821	Phosgene 0.25/c	0.25-15 ppm	CH 28 301
Hydrogen Sulfide 2/b	1-60 ppm	81 01 961	Phosphine 0.01/a	0.01-1 ppm	81 01 611
Hydrogen Sulfide 5/b	5-600 ppm	CH 29 801	Phosphine 0.1/a	0.1-4 ppm	CH 31 101
Hydrogen Sulfide 100/a	100-2,000 ppm	CH 29 101	Phosphine 0.1/b in acetylene	0.1-15 ppm	81 03 341
Hydrogen Sulfide 0.2%/A	0.2-7 Vol. %	CH 28 101	Phosphine 1/a	1-100 ppm	81 01 801
Hydrogen Sulfide 2%/a	2-40 Vol. %	81 01 211	Phosphine 25/a	25-10,000 ppm	81 01 621
Hydrogen Sulfide + Sulfur Dioxide 0.2%/A	0.02-7 Vol. %	CH 28 201	Phosphine 50/a	15-1,000 ppm	CH 21 201
Iodine 0.1/a	0.1-6 ppm	81 03 521	Phosphoric Acid Esters 0.05/a Dimethyldichlorovinylphosphate)	0.05 ppm	67 28 461
Mercaptan 0.1/a	0.1-2.5 ppm	81 03 281	Polytest	Qualitative	CH 28 401
Mercaptan 0.5/a	0.5-5 ppm	67 28 981	Pyridine 5/A	5 ppm	67 28 651
Mercaptan 20/a	20-100 ppm	81 01 871	Styrene 10/a	10-200 ppm	67 23 301
Mercury Vapor 0.1/b	0.05-2 mg/m ³	CH 23 101	Styrene 10/b	10-250 ppm	67 33 141
Methyl Acrylate 5/a	5-200 ppm	67 28 161	Styrene 50/a	50-400 ppm	CH 27 601
Methyl Bromide 0.2/a	0.2-8 ppm	81 03 391	Sulfur Dioxide 0.1/a	0.1-3 ppm	67 27 101
Methyl Bromide 0.5/a	0.5-30 ppm	81 01 671	Sulfur Dioxide 0.5/a	0.5-25 ppm	67 28 491
Methyl Bromide 5/b	5-50 ppm	CH 27 301	Sulfur Dioxide 1/a	1-25 ppm	CH 31 701
Methylisothiocyanate 0.1/a	0.1-6 ppm	81 03 485	Sulfur Dioxide 20/a	20-2,000 ppm	CH 24 201
Methylene Chloride 100/a	100-2,000 ppm	67 24 601	Sulfur Dioxide 50/b	50-8,000 ppm	81 01 531
Natural Gas Test (Methane)(5)	Qualitative	CH 20 001	Sulfuric Acid 1/a (9)	1-5 mg/m ³	67 28 781
Nickel Tetracarbonyl 0.1/a (9)	0.1-1 ppm	CH 19 501	Sulfuryl Fluoride 1/a (5)	1-5 ppm	81 03 471
Nitric Acid 1/a	1-50 ppm	67 28 311	Tetrahydrothiophene 1/b (5)	1-10 ppm	81 01 341
Nitrogen Dioxide 0.5/c	0.5-25 ppm	CH 30 001	Thioether	1 mg/m ³	CH 25 803
Nitrogen Dioxide 2/c	2-100 ppm	67 19 101	Toluene 5/b	5-300 ppm	81 01 661
Nitrous Fumes 0.5/a	0.5-10 ppm	CH 29 401	Toluene 50a	50-400 ppm	81 01 701
Nitrous Fumes 2/a	2-100 ppm	CH 31 001	Toluene 100/a	100-1,800 ppm	81 01 731
Nitrous Fumes 20/a	20-500 ppm	67 24 001	Toluene Diisocyanate 0.02/A (9)	0.02-0.2 ppm	67 24 501
Nitrous Fumes 50/a	50-2,000 ppm	81 01 921	Trichloroethane 50/d (5)	50-600 ppm	CH 21 101
Nitrous Fumes 100/c	100-5,000 ppm	CH 27 701	Trichloroethylene 2/a	2-250 ppm	67 28 541
Oil Mist 1/a	1-10 mg/m ³	67 33 031	Trichloroethylene 50/a	50-2,000 ppm	81 01 701
Olefins 0.05%/a	0.06-3.2 Vol.% Propylene 0.04-2.4 Vol.% Butylene	CH 31 201	Triethylamine 5/a	5-60 ppm	67 18 401
Organic Arsenic Compounds and Arsine	3 mg org. arsenic/m ³	CH 26 303	Vinyl Chloride 0.5/b	0.5-30 ppm	81 01 721
Organic Basic Nitrogen Compounds	1 mg/m ³	CH 25 903	Vinyl Chloride 100/a	100-3,000 ppm	CH 19 601
Oxygen 5%/C	5-23 Vol. %	81 03 261	Water Vapor 0.1/a	0.05-1 mg/L	81 01 321
Ozone 0.05/b	0.05-1.4 ppm	67 33 181	Water Vapor 1/b	1-40 mg/L	81 01 781
Ozone 10/a	10-300 ppm	CH 21 001	Water Vapor 3/a	3-60 lbs/mcf	81 03 031
Pentane 100/a	100-1,500 ppm	67 24 701	Xylene 10/a	10-400 ppm	67 33 161
Perchloroethylene 0.1/a	0.1-4 ppm	81 01 551			

ORDER INFORMATION

Description	Order No.
Hard-Side Kit	40 56 443
Soft-Side Kit	40 53 473
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Quantimeter 1000	45 00 231
Battery Charger	83 16 992
accuro® 2000 Kit	45 00 200
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HazMat Kit Standard	40 57 185
HazMat Simultest Kit	40 56 098
HazMat Simultest Kit (without pump)	40 56 447
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CDS Kit	64 00 565S
CDS/HazMat Kit	40 56 665
CDS Kit with Quantimeter & Charger	40 56 570
CDS/HazMat Kit with Quantimeter & Charger	40 56 528
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Simultaneous Test Sets	
Civil Defense Simultest Set I	81 03 140
Civil Defense Simultest Set V	81 03 200
HazMat Simultaneous Test Set I (inorganic)	81 01 735
HazMat Simultaneous Test Set II (inorganic)	81 01 736
HazMat Simultaneous Test Set III (organic)	81 01 770
Clan Lab Simultest Set	81 03 310
Fumigation Simultest Set	81 03 410
Container Fumigation Simultest Set	81 03 380
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Accessories	
Tube Opener 7000	64 01 200
(1) Motor Vehicle Probe	CH 00 214
(2) Hot Air Probe	CH 00 213
(3) Extension Hose 3m	64 00 077
10m	64 00 078
15m	64 00 079



accuro® Hard Side Kit



accuro® Soft Side Kit



Quantimeter 1000



accuro® 2000



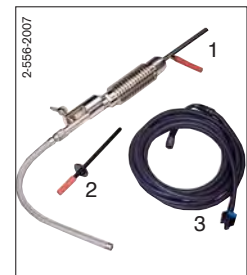
Civil Defense Simultest (CDS) Kit



CDS/HazMat Kit with Quantimeter



Simultaneous Test Set



Accessories

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