

## 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. 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.

### Short-Term Dräger-Tubes®

| Dräger-Tube <sup>®</sup>       | Measuring Range  | MatCat | Part No.             |
|--------------------------------|------------------|--------|----------------------|
| Acetaldehyde 100/a             | 100 - 1,000 ppm  | 321    | 6726665              |
| Acetic Acid 5/a                | 5 - 80 ppm       | 321    | 6722101              |
| Acetone 100/b                  | 100 - 12,000 ppm | 321    | CH22901              |
| Acetone 40/a (5 tests per box) | 40 - 800 ppm     | 321    | 8103381              |
| Acid Test                      | Qualitative      | 321    | 8101121              |
| Acrylonitrile 0,2/a            | 5 - 50 ppm       | 321    | 8103701              |
| Air Current (Smoke Tubes)      | N/A              | 321    | CH25301              |
| Amine Test                     | Qualitative      | 321    | 8101061              |
| Ammonia 0.25/a                 | 0.25 - 3 ppm     | 321    | 8101711              |
| Ammonia 0.5%/a                 | 0.05 - 10 Vol.%  | 321    | CH31901              |
| Ammonia 2/a                    | 2 - 30 ppm       | 321    | 6733231              |
| Ammonia 5/a                    | 5 - 600 ppm      | 321    | CH20501              |
| Ammonia 5/b                    | 2.5 - 100 ppm    | 321    | 8101941              |
| Aniline 0.5/a                  | 0.5 - 10 ppm     | 321    | 6733171              |
| Aniline 5/a                    | 1 - 20 ppm       | 321    | CH20401              |
| Arsine 0.05/a                  | 0.05 - 60 ppm    | 321    | CH25001              |
| Benzene 0.25/c (Specific)      | 0.25 - 10 ppm    | 321    | 8103691              |
| Benzene 15/a                   | 15 - 420 ppm     | 321    | 8101741              |
| Benzene 2/a (5 tests per box)  | 2 - 60 ppm       | 321    | 8101231              |
| Benzene 5/b                    | 5 - 50 ppm       | 321    | 6728071              |
| Carbon Dioxide 0.1%/a          | 0.1 - 6 Vol.%    | 321    | CH23501              |
| Carbon Dioxide 0.5%/a          | 0.5 - 10 Vol.%   | 321    | CH31401              |
| Carbon Dioxide 1%/a            | 1 - 20 Vol.%     | 321    | CH25101              |
| Carbon Dioxide 100/a           | 100 - 3,000 ppm  | 321    | 8101811              |
| Carbon Dioxide 5%/A            | 5 - 60 Vol.%     | 321    | CH20301              |
| Carbon Disulfide 3/a           | 3 - 95 ppm       | 321    | 8101891 <sup>9</sup> |
| Carbon Disulfide 30/a          | 32 - 3,200 ppm   | 321    | CH23201              |
| Carbon Disulfide 5/a           | 5 - 60 ppm       | 321    | 6728351              |
| Carbon Monoxide 0.3%/b         | 0.3 - 7 Vol%     | 321    | CH29901 <sup>9</sup> |
| Carbon Monoxide 10/b           | 10 - 3,000 ppm   | 321    | CH20601              |

<sup>9</sup>Tubes with 6 to 12 months shelf life.

| Dräger-Tube*  | Measuring Range                       | MatCat | Part No.             |
|---|---------------------------------------|--------|----------------------|
| Carbon Monoxide 2/a                                   | 2 - 300 ppm                           | 321    | 6733051              |
| Carbon Monoxide 5/c                                   | 5 - 700 ppm                           | 321    | CH25601              |
| Carbon Monoxide 8/a                                   | 8 - 150 ppm                           | 321    | CH19701              |
| Carbon Pretube  | N/A                                   | 321    | CH24101              |
| Carbon Tetrachloride 0.1/a                            | 0.1 - 5 ppm                           | 321    | 8103501              |
| Carbon Tetrachloride 1/a                              | 1 - 50 ppm                            | 321    | 8101021              |
| Chlorine 0.2/a  | 0.2 - 30 ppm                          | 321    | CH24301              |
| Chlorine 0.3/b  | 0.3 - 10 ppm                          | 321    | 6728411              |
| Chlorine 50/a   | 50 - 500 ppm                          | 321    | CH20701              |
| Chlorine Dioxide 0.025/a                              | 0.025 - 1 ppm                         | 321    | 8103491              |
| Chlorobenzene 5/a (5 tests per box)                   | 5 - 200 ppm                           | 321    | 6728761              |
| Chloroform 2/a (5 tests per box)                      | 2 - 10 ppm                            | 321    | 6728861              |
| Chloroformates 0.2/b                                  | 0.2 - 10 ppm                          | 321    | 6718601              |
| Chloropicrin 0.1/a                                    | 0.1 - 2 ppm                           | 321    | 8103421              |
| Chloroprene 5/a                                       | 5 - 60 ppm                            | 321    | 6718901              |
| Chromic Acid 0.1/a (9 tests per box)                  | 0.1 - 0.5 mg/m <sup>3</sup>           | 321    | 6728681              |
| Cyanide 2/a   | 2 - 15 mg/m <sup>3</sup>              | 321    | 6728791              |
| Cyanogen Chloride 0.25/a                              | 0.25 - 5 ppm                          | 321    | CH19801              |
| Cyclohexane 40/a                                      | 300 - 3000 ppm                        | 321    | 8103671              |
| Cyclohexylamine 2/a                                   | 2 - 30 ppm                            | 321    | 6728931              |
| Diesel Fuel   | 25 - 200 mg/m <sup>3</sup>            | 321    | 8103475 <sup>9</sup> |
| Diethyl Ether 100/a                                   | 100 - 4,000 ppm                       | 321    | 6730501              |
| Dimethyl Formamide 10/b                               | 10 - 40 ppm                           | 321    | 6718501              |
| Dimethyl Sulfate 0.005/c (9 tests per box)            | 0.005 - 0.05 ppm                      | 321    | 6718701              |
| Dimethyl Sulfide 1/a (5 tests per box)                | 1 - 15 ppm                            | 321    | 6728451              |
| DT Nitrous Fumes 0.2/a (10)                           | 0.2 - 30 ppm                          | 321    | 8103661              |
| Epichlorohydrin 5/c                                   | 5 - 80 ppm                            | 321    | 6728111              |
| Ethanol 100/a (10)                                    | 100 - 3,000 ppm                       | 321    | 8103761              |
| Ethyl Acetate 200/a                                   | 200 - 3,000 ppm                       | 321    | CH20201              |
| Ethyl Benzene 30/a                                    | 30 - 600 ppm                          | 321    | 6728381              |
| Ethyl Glycol Acetate 50/a                             | 50 - 700 ppm                          | 321    | 6726801              |
| Ethylene 0.1/a (5 tests per box)                      | 0.1 - 5 ppm                           | 321    | 8101331              |
| Ethylene 50/a   | 50 - 2,500 ppm                        | 321    | 6728051              |
| Ethylene Glycol 10 (5 tests per box)                  | 10 - 180 mg/m <sup>3</sup>            | 321    | 8101351              |
| Ethylene Oxide 1/a (5 tests per box)                  | 1 - 30 ppm                            | 321    | 6728961              |
| Ethylene Oxide 25/a                                   | 25 - 500 ppm                          | 321    | 6728241              |
| Fluorine 0.1/a  | 0.1 - 2 ppm                           | 321    | 8101491              |
| Formaldehyde 0.2/a                                    | 0.2 - 5 ppm                           | 321    | 6733081              |
| Formaldehyde 2/a                                      | 2 - 40 ppm                            | 321    | 8101751              |
| Formaldehyde Activation<br>Tube - use with HCHO 0.2/a | To extend Measuring Range to 0.04 ppm | 321    | 8101141              |
| Formic Acid 1/a                                       | 1 - 15 ppm                            | 321    | 6722701              |
| Halogenated Hydrocarbons 100/a (8 tests per box)      | 200 - 2,800 ppm                       | 321    | 8101601 <sup>7</sup> |
| Hexane 10/a   | 300 - 2500 ppm                        | 321    | 8103681              |
| Hydrazine 0.01/a                                      | 0.01 - 6 ppm                          | 321    | 8103351              |
| Hydrazine 0.25/a                                      | 0.1 - 10 ppm                          | 321    | CH31801              |

<sup>7</sup>Halogenated Hydrocarbons 100/a and Sulfuryl Fluoride 1/a tubes must ship via motor freight.

<sup>9</sup>Tubes with 6 to 12 months shelf life.

| Dräger-Tube®                                 | Measuring Range                               | MatCat | Part No.             |
|--|---|--------|----------------------|
| Hydrocarbons 0.1%/c                          | 0.1 - 1.3 Vol.% (Propane)                     | 321    | 8103571              |
| Hydrocarbons 2/a                             | 2 - 24 mg/l                                   | 321    | 8103581              |
| Hydrochloric Acid 0.2/a                      | 0.2 - 20 ppm                                  | 321    | 8103481              |
| Hydrochloric Acid 1/a                        | 0.5 - 100 ppm                                 | 321    | CH29501              |
| Hydrochloric Acid 50/a                       | 50 - 5,000 ppm                                | 321    | 6728181              |
| Hydrochloric Acid/Nitric Acid 1/a            | 1 - 10 ppm HCl<br>1 - 15 ppm HNO <sub>3</sub> | 321    | 8101681              |
| Hydrocyanic Acid 0.5/a                       | 0.5 - 50 ppm                                  | 321    | 8103601              |
| Hydrogen 0.2%/a                              | 0.2 - 2 Vol.%                                 | 321    | 8101511              |
| Hydrogen Fluoride 0.5/a                      | 0.5 - 90 ppm                                  | 321    | 8103251              |
| Hydrogen Fluoride 1.5/b                      | 1.5 - 15 ppm                                  | 321    | CH30301              |
| Hydrogen Peroxide 0.1/a                      | 0.1 - 3 ppm                                   | 321    | 8101041              |
| Hydrogen Sulfide + Sulfur Dioxide 0.2%/A     | 0.02 - 7 Vol.%                                | 321    | CH28201              |
| Hydrogen Sulfide 0.2%/A                      | 0.2 - 7 Vol.%                                 | 321    | CH28101              |
| Hydrogen Sulfide 0.2/a                       | 0.2 - 5 ppm                                   | 321    | 8101461              |
| Hydrogen Sulfide 0.2/b                       | 0.2 - 6 ppm                                   | 321    | 8101991              |
| Hydrogen Sulfide 0.5/a                       | 0.5 - 150 ppm                                 | 321    | 6728041              |
| Hydrogen Sulfide 1/c                         | 1 - 200 ppm                                   | 321    | 6719001              |
| Hydrogen Sulfide 1/d                         | 1 - 200 ppm                                   | 321    | 8101831              |
| Hydrogen Sulfide 100/a                       | 100 - 2,000 ppm                               | 321    | CH29101              |
| Hydrogen Sulfide 2%/a                        | 2 - 40 Vol.%                                  | 321    | 8101211              |
| Hydrogen Sulfide 2/a                         | 2 - 200 ppm                                   | 321    | 6728821              |
| Hydrogen Sulfide 2/b                         | 1 - 60 ppm                                    | 321    | 8101961              |
| Hydrogen Sulfide 5/b                         | 5 - 600 ppm                                   | 321    | CH29801              |
| Iodine 0.1/a                                 | 0.1 - 5 ppm                                   | 321    | 8103521              |
| i-Propanol 50/a                              | 50 - 4000 ppm                                 | 321    | 8103741              |
| Mercaptan 0.1/a                              | 0.1 - 15 ppm                                  | 321    | 8103281              |
| Mercaptan 0.5/a                              | 0.5 - 5 ppm                                   | 321    | 6728981              |
| Mercaptan 20/a                               | 20 - 100 ppm                                  | 321    | 8101871              |
| Mercury 0.1/b                                | 0.05 - 2 mg/m <sup>3</sup>                    | 321    | CH23101              |
| Methanol 25/a                                | 20 - 5000 ppm                                 | 321    | 8103801              |
| Methyl Acrylate 5/a                          | 5 - 200 ppm                                   | 321    | 6728161              |
| Methyl Bromide 0.2/a                         | 0.2 - 8 ppm                                   | 321    | 8103391              |
| Methyl Bromide 0.5/a                         | 0.5 - 30 ppm                                  | 321    | 8101671              |
| Methyl Bromide 3/a (5 tests per box)         | 3 - 100 ppm                                   | 321    | 6728211              |
| Methyl Bromide 5/b                           | 5 - 50 ppm                                    | 321    | CH27301              |
| Methylene Chloride 20/a                      | 20 - 200ppm                                   | 321    | 8103591 <sup>9</sup> |
| Monostyrene 10/a                             | 10 - 200 ppm                                  | 321    | 6723301              |
| Monostyrene 10/b                             | 10 - 250 ppm                                  | 321    | 6733141              |
| Monostyrene 50/a                             | 50 - 400 ppm                                  | 321    | CH27601              |
| Natural Gas Test (5 tests per box)           | Qualitative                                   | 321    | CH20001 <sup>9</sup> |
| n-Butanol 10/a (10)                          | 10 - 2000 ppm                                 | 321    | 8103861              |
| Nickel Tetracarbonyl 0.1/a (9 tests per box) | 0.1 - 1 ppm                                   | 321    | CH19501              |
| Nitric Acid 1/a                              | 1 - 50 ppm                                    | 321    | 6728311              |
| Nitrogen Dioxide 0.1/a                       | 0.1 - 30 ppm                                  | 321    | 8103631              |
| Nitrogen Dioxide 2/c                         | 2 - 100 ppm                                   | 321    | 6719101              |

<sup>9</sup>Tubes with 6 to 12 months shelf life.

| Dräger-Tube*                                  | Measuring Range                      | MatCat | Part No.             |
|---|--------------------------------------|--------|----------------------|
| Nitrous Gases 100/c                           | 100 - 5,000 ppm                      | 321    | CH27701              |
| Nitrous Gases 2/a                             | 2 - 150 ppm                          | 321    | CH31001              |
| Nitrous Gases 20/a                            | 20 - 500 ppm                         | 321    | 6724001              |
| Nitrous Gases 50/a                            | 50 - 2,000 ppm                       | 321    | 8101921              |
| Oil 10/a-P                                    | 0.1 - 1.0 mg/m <sup>3</sup>          | 327    | 6728371              |
| Oil Mist 1/a                                  | 1 - 10 mg/m <sup>3</sup>             | 321    | 6733031              |
| Olefins 0.05%/a (Propylene, Butylene)         | 0.06 - 3.2 Vol.%<br>0.04 - 2.4 Vol.% | 321    | CH31201              |
| Organic Arsenic Compounds & Arsine            | 3 mg org. arsenic/m <sup>3</sup>     | 321    | CH26303              |
| Organic Basic Nitrogen Compounds              | 1 mg/m <sup>3</sup>                  | 321    | CH25903              |
| Oxygen 5%/C                                   | 5 - 23 Vol.%                         | 321    | 8103261              |
| Ozone 0.05/b                                  | 0.05 - 1.4 ppm                       | 321    | 6733181              |
| Ozone10/a                                     | 10 - 300 ppm                         | 321    | CH21001              |
| Pentane 100/a                                 | 100 - 1,500 ppm                      | 321    | 6724701              |
| Perchloroethylene 0.1/a                       | 0.1 - 4 ppm                          | 321    | 8101551              |
| Perchloroethylene 10/b                        | 10 - 500 ppm                         | 321    | CH30701              |
| Perchloroethylene 2/a                         | 2 - 300 ppm                          | 321    | 8101501              |
| Petroleum Hydrocarbons 10/a                   | 10 - 300 ppm                         | 321    | 8101691              |
| Petroleum Hydrocarbons 100/a                  | 100 - 2,500 ppm                      | 321    | 6730201              |
| Phenol 1/b                                    | 1 - 20 ppm                           | 321    | 8101641              |
| Phosgene 0.02/a                               | 0.02 - 1 ppm                         | 321    | 8101521              |
| Phosgene 0.25/c                               | 0.25 - 25 ppm                        | 321    | CH28301              |
| Phosphine 0.01/a                              | 0.01 - 1.0 ppm                       | 321    | 8101611              |
| Phosphine 0.1/b in acetylene                  | 0.1 - 15 ppm                         | 321    | 8103341              |
| Phosphine 0.1/c                               | 0.1 - 4 ppm                          | 321    | 8103711              |
| Phosphine 1/a                                 | 10 - 100 ppm                         | 321    | 8101801              |
| Phosphine 25/A                                | 25 - 10,000 ppm                      | 321    | 8101621              |
| Phosphine 50/a                                | 15 - 3,000 ppm                       | 321    | CH21201              |
| Phosphoric Acid Esters 0.05/a                 | 0.05 ppm                             | 321    | 6728461              |
| Polytest                                      | Qualitative                          | 321    | CH28401              |
| Pyridine 5/A                                  | 5 ppm                                | 321    | 6728651              |
| Smoke Tubes                                   | N/A                                  | 321    | CH25301              |
| Sulfur Dioxide 0.1/a                          | 0.1 - 3 ppm                          | 321    | 6727101              |
| Sulfur Dioxide 0.5/a                          | 0.5 - 25 ppm                         | 321    | 6728491              |
| Sulfur Dioxide 1/a                            | 1 - 25 ppm                           | 321    | CH31701              |
| Sulfur Dioxide 20/a                           | 20 - 2,000 ppm                       | 321    | CH24201              |
| Sulfur Dioxide 50/b                           | 50 - 8,000 ppm                       | 321    | 8101531              |
| Sulfuric Acid 1/a (9 tests per box)           | 1 - 5 mg/m <sup>3</sup>              | 321    | 6728781              |
| Sulfuryl Fluoride 1/a (5 tests per box)       | 1 - 5 ppm                            | 321    | 8103471 <sup>7</sup> |
| Tetrahydrothiophene 1/b (5 tests per box)     | 1 - 10 ppm                           | 321    | 8101341              |
| Thioether                                     | 1 mg/m <sup>3</sup>                  | 321    | CH25803              |
| Toluene 100/a                                 | 100 - 1,800 ppm                      | 321    | 8101731              |
| Toluene 5/b                                   | 5 - 300 ppm                          | 321    | 8101661              |
| Toluene 50/a                                  | 50 - 400 ppm                         | 321    | 8101701              |
| Toluene Diisocyanate 0.02/A (9 tests per box) | 0.02 - 0.2 ppm                       | 321    | 6724501              |
| Trichloroethane 50/d (5 tests per box)        | 50 - 600 ppm                         | 321    | CH21101              |

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| Dräger-Tube*           | Measuring Range | MatCat | Part No. |
|------------------------|-----------------|--------|----------|
| Trichloroethylene 2/a  | 2 - 250 ppm     | 321    | 6728541  |
| Trichloroethylene 50/a | 50 - 500 ppm    | 321    | 8101881  |
| Triethylamine 5/a      | 5 - 60 ppm      | 321    | 6718401  |
| Vinyl Chloride 0.5/b   | 0.5 - 30 ppm    | 321    | 8101721  |
| Vinyl Chloride 100/a   | 100 - 3,000 ppm | 321    | CH19601  |
| Water Vapor 0.1        | 1 - 40 mg/l     | 321    | CH23401  |
| Water Vapor 0.1/a      | 0.05 - 1 mg/l   | 321    | 8101321  |
| Water Vapor 1/b        | 1 - 40 mg/l     | 321    | 8101781  |
| Water Vapor 3/a        | 3 - 60 lbs/mmcf | 321    | 8103031  |
| Xylene 10/a            | 10 - 400 ppm    | 321    | 6733161  |

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 EVERYTHING UNDER PRESSURE™