



Colorimetric Gas Detection Tubes & Pump

On-the-spot, compound-specific measurement of gases and vapors



RAE Systems colorimetric gas detection tubes enable quick, on-the-spot measurement of a wide range of toxic and combustible gases and vapors. RAE Systems tubes are easy to read, and provide a sharp, clear color change directly corresponding to the concentration of gas present. RAE Systems tubes are compatible with the RAE Systems piston hand pump, a reliable way to draw samples of an exact volume required for the most accurate measurements.

- Quick, accurate, low-cost measurements
- Easy to read, with sharp, clear color change
- No calibration needed

KEY FEATURES

Colorimetric Tubes

(See Colorimetric Tubes Part Numbers on back page)

- Wide assortment of tubes available to detect over 300 gases and vapors
- Easy to use, even in multiple layers of gloves
- Easy-to-read with sharp, clear color change
- No calibration or other maintenance required

Hand Pump (LP-1200)

(Piston Hand Pump Kit Part Number: 010-0001-000)

- Ergonomic, durable hand pump
- Solid metal construction with lifetime warranty
- Springless piston design accurately draws 50 and 100 cc volumes

APPLICATIONS

- Oil and gas
- Chemicals and petrochemicals
- Agriculture and pest control
- Food and beverage production
- Environmental protection
- Fire service
- HazMat response
- National security



First responder uses RAE Systems colorimetric tubes and hand pump to measure VOC levels inside a barrel.

Colorimetric Gas Detection Tubes & Pump



On-the-spot, compound-specific measurement of gases and vapors

SPECIFICATIONS

| Type | Part Number | Standard Range | Extended Range |
|-------------------|-------------|---------------------------|--------------------|
| Acetone | 10-111-40 | 0.1 to 2% | 0.05 to 4% |
| Amines | 10-132-10 | 0.5 to 10 ppmv | 0.25 to 20 ppmv |
| Ammonia | 10-100-05 | 1 to 30 ppmv | 0.5 to 60 ppmv |
| | 10-100-10 | 5 to 100 ppmv | 2.5 to 200 ppmv |
| | 10-100-12 | 10 to 260 ppmv | 5 to 520 ppmv |
| | 10-100-15 | 25 to 500 ppmv | 12 to 1000 ppmv |
| | 10-100-40 | 1 to 15% | 0.5 to 30% |
| Benzene | 10-101-01* | 0.5 to 10 ppmv selective | 0.25 to 30 ppmv |
| | 10-101-10* | 5 to 40 ppmv selective | 2.5 to 200 ppmv |
| | 10-101-20 | 5 to 100 ppmv | 2.5 to 200 ppmv |
| Butadiene | 10-135-04 | 0.5 to 5 ppmv | 0.25 to 10 ppmv |
| n-Butane | 10-137-30 | 25 to 1400 ppmv | 12.5 to 2800 ppmv |
| Carbon Dioxide | 10-104-30 | 300 to 5000 ppmv | 150 to 10,000 ppmv |
| | 10-104-40 | 0.05 to 1% | 0.025 to 2% |
| | 10-104-45 | 0.25 to 3% | 0.125 to 6% |
| | 10-104-50 | 1 to 20% | 0.5 to 10% |
| | 10-104-60 | 5 to 40% | 1.25 to 20% |
| Carbon Monoxide | 10-102-18 | 5 to 100 ppmv selective | 2.5 to 300 ppmv |
| | 10-102-20 | 5 to 100 ppmv | 2.5 to 200 ppmv |
| | 10-102-30 | 20 to 500 ppmv | 10 to 1000 ppmv |
| | 10-102-45 | 0.2 to 4% | 0.4 to 8% |
| Chlorine | 10-106-10 | 0.5 to 8 ppmv | 0.25 to 16 ppmv |
| | 10-106-20 | 5 to 100 ppmv | 2.5 to 200 ppmv |
| Chlorine Dioxide | 10-130-10 | 0.25 to 15 ppmv | 0.05 to 30 ppmv |
| Diesel & Jet Fuel | 10-143-10 | 0.5 to 25 ppmv | N/A |
| Ethanol | 10-141-30 | 100 to 2000 ppmv | 50 to 2000 ppmv |
| Formaldehyde | 10-121-05 | 0.1 to 5 ppmv | 0.1 to 40 ppmv |
| Gasoline | 10-138-30 | 30 to 1000 ppmv | 15 to 2000 ppmv |
| Hydrocarbons | 10-110-30 | 50 to 1000 ppmv | 25 to 2000 ppmv |
| Hydrogen Chloride | 10-108-09 | 1 to 20 ppmv | 0.5 to 40 ppmv |
| | 10-108-10* | 1 to 20 ppmv w/ desiccant | 0.5 to 40 ppmv |
| | 10-108-22 | 20 to 500 ppmv | 10 to 1000 ppmv |
| Hydrogen Cyanide | 10-126-10 | 2.5 to 60 ppmv | 1.25 to 120 ppmv |
| Hydrogen Fluoride | 10-105-10 | 0.5 to 20 ppmv | 0.25 to 40 ppmv |

| Type | Part Number | Standard Range | Extended Range |
|-------------------|-------------|--------------------------------------|-------------------|
| Hydrogen Sulfide | 10-103-04 | 0.2 to 3 ppmv | 0.1 to 6 ppmv |
| | 10-103-05* | 0.2 to 3 ppmv w/ desiccant | 0.1 to 6 ppmv |
| | 10-103-06 | 1 to 7 ppmv | 0.25 to 7 ppmv |
| | 10-103-10 | 2.5 to 60 ppmv | 1.25 to 120 ppmv |
| | 10-103-12 | 10 to 120ppmv | 5 to 240ppmv |
| | 10-103-15 | 10 to 120 ppmv | 5 to 240 ppmv |
| | 10-103-18 | 25 to 250 ppmv | 12.5 to 500 ppmv |
| | 10-103-20 | 50 to 800 ppmv | 25 to 1600 ppmv |
| | 10-103-30 | 100 to 2000 ppmv | 50 to 4000 ppmv |
| | 10-103-40 | 0.1 to 2% | 0.05 to 4% |
| 10-103-50 | 2 to 40% | 0.5 to 20% | |
| MEK | 10-113-20 | 0.02 to 0.6 % | 0.01 to 1.8 % |
| Mercaptans | 10-129-20 | 5 to 120 ppmv | 2.5 to 240 ppmv |
| Methyl Bromide | 10-131-10 | 1 to 18 ppmv | 0.5 to 36 ppmv |
| | 10-131-30 | 20 to 300 ppmv | 40 to 600 ppmv |
| Nitric Acid | 10-146-20 | 1 to 20 ppm | 0.5 to 40 ppm |
| Nitrogen Dioxide | 10-117-10 | 0.5 to 30 ppmv | N/A |
| Nitrogen Oxides | 10-109-20* | 1 to 50 ppmv | 0.5 to 100 ppmv |
| Ozone | 10-133-03 | 0.05 to 0.6 ppmv | 0.15 to 1.8 ppmv |
| Phenol | 10-139-05 | 1 to 25 ppmv | 0.5 to 180 ppmv |
| Phosphine | 10-116-10 | 5 to 50 ppmv | 2.5 to 100 ppmv |
| | 10-116-20 | 25 to 500 ppmv | 12.5 to 1000 ppmv |
| | 10-116-25 | 50 to 1000 ppmv | 25 to 2000 ppmv |
| Sulfur Dioxide | 10-107-15 | 2 to 30 ppmv | 1 to 60 ppmv |
| | 10-107-20 | 5 to 100 ppmv | 2.5 to 200 ppmv |
| | 10-107-25 | 100 to 1800 ppmv | 50 to 3600 ppmv |
| | 10-107-30 | 200 to 4000 ppmv | 50 to 4000 ppmv |
| | 10-107-40 | 0.2 to 5 % | 0.1 to 10 % |
| Toluene | 10-114-20 | 10 to 300 ppmv | 5 to 600 ppmv |
| Trichloroethylene | 10-119-20* | 5 to 100 ppmv | 2.5 to 230 ppmv |
| Vinyl Chloride | 10-128-10* | 1 to 20 ppmv | 0.5 to 40 ppmv |
| Water Vapor | 10-120-10 | 2 to 10 lbs/MMCF (0.03 to 0.16 mg/L) | 1 to 20 lbs/MMCF |
| | 10-120-20 | 6 to 40 lbs/MMCF (0.1 to 0.64 mg/L) | 3 to 80 lbs/MMCF |
| | 10-120-30 | 0.05 to 1 mg/L | 0.025 to 2 mg/L |
| | 10-120-40 | 1 to 18 mg/L | 0.5 to 32 mg/L |
| | 10-112-20 | 10 to 200 ppmv | 5 to 400 ppmv |

* Box contains 5 colorimetric tubes and 5 pre-tubes, for a total of 5 measurements. Other boxes contain 10 colorimetric tubes.

CORPORATE HEADQUARTERS

RAE Systems by Honeywell

3775 North First Street
San Jose, CA 95134 USA
raesales@raesystems.com

DS-1073-03

WORLDWIDE SALES OFFICES

USA/Canada 1.877.723.2878
Europe +45.86.52.51.55
Middle East +00971.4.440.5949
China +86.10.5885.8788-3000
Asia Pacific +852.2669.0828

www.raesystems.com