

# HONEYWELL RAE SYSTEMS COLORIMETRIC TUBES AND PUMP

Affordable Measurement for Specific Gases and Vapors

Honeywell RAE Systems Colorimetric Tubes are easy to read, and provide a sharp, clear color change directly responding to the concentration of gas present.

## ON-THE-SPOT, COMPOUND SPECIFIC MEASUREMENTS

Honeywell RAE Systems colorimetric gas detection tubes enable quick, on-the-spot measurement of a wide range of toxic and combustible gases and vapors. Colorimetric tubes are compatible with the Honeywell piston hand pump, a reliable way to draw samples of a precise volume required for the most accurate measurements.

### APPLICATIONS:

- Oil and Gas
- Chemicals and Petrochemicals
- Agriculture and Pest Control
- Food and Beverage Production
- Environmental Protection
- Fire Service
- Hazmat Response
- National Security

## FEATURES AND BENEFITS

### KEY FEATURES

- Single use colorimetric gas detection tubes change color in direct correlation to the concentration of gas present
- Tubes are calibrated at the Honeywell factory, no additional calibration required
- Quick, accurate, low-cost measurements
- Easy to read, with sharp, clear color change
- Wide assortment of tubes available to detect over 300 gases and vapors
- Easy to use, even in multiple layers of gloves



### HAND PUMP (LP-1200)

Piston Hand Pump Kit  
(H-010-0001-000)

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

**Honeywell**

# Honeywell Colorimetric Tubes Technical Specifications See product manual for full specifications.

Technical Specifications			
Type	Part Number	Standard Range	Extended Range
Acetone	H10-111-40	0.1 to 2%	0.05 to 4%
Amines	H10-132-10	0.5 to 10 ppmv	0.25 to 20 ppmv
Ammonia	H10-100-05	1 to 30 ppmv	0.5 to 60 ppmv
	H10-100-10	5 to 100 ppmv	2.5 to 200 ppmv
	H10-100-12	10 to 260 ppmv	5 to 520 ppmv
	H10-100-15	25 to 500 ppmv	12 to 1000 ppmv
	H10-100-40	1 to 15%	0.5 to 30%
Benzene	H10-101-01*	0.5 to 10 ppmv selective	0.25 to 30 ppmv
	H10-101-10*	5 to 40 ppmv selective	25 to 200 ppmv
	H10-101-20	5 to 100 ppmv	2.5 to 200 ppmv
Butadiene	H10-135-04	0.5 to 5 ppmv	0.25 to 10 ppmv
n-Butane	H10-137-30	25 to 1400 ppmv	12.5 to 2800 ppmv
Carbon Dioxide	H10-104-30	300 to 5000 ppmv	150 to 10,000 ppmv
	H10-104-40	0.05 to 1%	0.025 to 2%
	H10-104-45	0.25 to 3%	0.125 to 6%
	H10-104-50	1 to 20%	0.5 to 10%
	H10-104-60	5 to 40%	1.25 to 20%
Carbon Monoxide	H10-102-18	5 to 100 ppmv selective	2.5 to 300 ppmv
	H10-102-20	5 to 100 ppmv	2.5 to 200 ppmv
	H10-102-30	20 to 500 ppmv	10 to 1000 ppmv
	H10-102-45	0.2 to 4%	0.4 to 8%
Chlorine	H10-106-10	0.5 to 8 ppmv	0.25 to 16 ppmv
	H10-106-20	5 to 100 ppmv	2.5 to 200 ppmv
Chlorine Dioxide	H10-130-10	0.25 to 15 ppmv	0.05 to 30 ppmv
Diesel & Jet Fuel	H10-143-10	0.5 to 25 ppmv	N/A
Ethanol	H10-141-30	100 to 2000 ppmv	50 to 2000 ppmv
Formaldehyde	H10-121-05	0.1 to 5 ppmv	0.1 to 40 ppmv
Gasoline	H10-138-30	30 to 1000 ppmv	15 to 2000 ppmv
Hydrocarbons	H10-110-30	50 to 1000 ppmv	25 to 2000 ppmv
Hydrogen Chloride	H10-108-09	1 to 20 ppmv	0.5 to 40 ppmv
	H10-108-10*	1 to 20 ppmv w/ desiccant	0.5 to 40 ppmv
	H10-108-22	20 to 500 ppmv	10 to 1000 ppmv
Hydrogen Cyanide	H10-126-10	2.5 to 60 ppmv	1.25 to 120 ppmv
Hydrogen Fluoride	H10-105-10	0.5 to 20 ppmv	0.25 to 40 ppmv

Technical Specifications			
Type	Part Number	Standard Range	Extended Range
Hydrogen Sulfide	H10-103-04	0.2 to 3 ppmv	0.1 to 6 ppmv
	H10-103-05*	0.2 to 3 ppmv w/ desiccant	0.1 to 6 ppmv
	H10-103-06	1 to 7 ppmv	0.25 to 7 ppmv
	H10-103-10	2.5 to 60 ppmv	1.25 to 120 ppmv
	H10-103-12	0 to 150ppmv	5 to 240ppmv
	H10-103-15	10 to 120 ppmv	5 to 240 ppmv
	H10-103-18	25 to 250 ppmv	12.5 to 500 ppmv
	H10-103-20	50 to 800 ppmv	25 to 1600 ppmv
	H10-103-30	to 2000 ppmv	50 to 4000 ppmv
	H10-103-40	0.1 to 2%	0.05 to 4%
	H10-103-50	2 to 40%	0.5 to 20%
MEK	H10-113-20	0.02 to 0.6 %	0.01 to 1.8 %
Mercaptans	H10-129-20	5 to 120 ppmv	2.5 to 240 ppmv
Methyl Bromide	H10-131-10	1 to 18 ppmv	0.5 to 36 ppmv
	H10-131-30	20 to 300 ppmv	40 to 600 ppmv
Nitric Acid	H10-146-20	1 to 20 ppm	0.5 to 40 ppm
Nitrogen Dioxide	H10-117-10	0.5 to 30 ppmv	N/A
Nitrogen Oxides	H10-109-20*	1 to 50 ppmv	0.5 to 100 ppmv
Ozone	H10-133-03	0.05 to 0.6 ppmv	0.15 to 1.8 ppmv
Phenol	H10-139-05	1 to 25 ppmv	0.5 to 180 ppmv
	H10-116-10	5 to 50 ppmv	2.5 to 100 ppmv
Phosphine	H10-116-20	25 to 500 ppmv	12.5 to 1000 ppmv
	H10-116-25	50 to 1000 ppmv	25 to 2000 ppmv
	H10-107-15	2 to 30 ppmv	1 to 60 ppmv
Sulfur Dioxide	H10-107-20	5 to 100 ppmv	2.5 to 200 ppmv
	H10-107-25	10 to 1800 ppmv	50 to 3600 ppmv
	H10-107-30	20 to 4000 ppmv	50 to 4000 ppmv
	H10-107-40	0.2 to 5 %	0.1 to 10 %
Toluene	H10-114-20	10 to 300 ppmv	5 to 600 ppmv
Trichloroethylene	H10-119-20*	5 to 100 ppmv	2.5 to 230 ppmv
Vinyl Chloride	H10-128-10*	1 to 20 ppmv	0.5 to 40 ppmv
Water Vapor	H10-120-10	2 to 10 lbs/MMCF (0.03 to 0.16 mg/L)	1 to 20 lbs/MMCF
	H10-120-20	6 to 40 lbs/MMCF (0.1 to 0.64 mg/L)	3 to 80 lbs/MMCF
	H10-120-30	0.05 to 1 mg/L	0.025 to 2 mg/L
	H10-120-40	1 to 18 mg/L	0.5 to 32 mg/L

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FUTURE  
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MAKE IT**

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