

#30

## GASTEC HYDROGEN COLOR INTENSITY TUBE

The Gastec Detector Tube No.30 provides a rapid, fully quantitative analysis of the concentration of HYDROGEN in air with an accuracy tolerance of  $\pm 25\%$  utilizing the Gastec Multi-Stroke Gas Sampling Pump.

**PERFORMANCE :**

Measuring Range	0.5 - 2.0 %
Number of Pump Stroke taken	1 pump stroke (100 ml) only
Detecting Limit*	0.5 %
Color Change	Yellow - Yellow Brown
Sampling Time	2 minutes per pump stroke

**SHELF LIFE :**

Please refer to the terms of validity of a label of a Detector Tube Box.

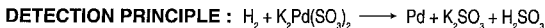
**MEASUREMENT PROCEDURE :**

1. Break tips off a fresh detector tube by bending each tube end in the tube tip breaker of the pump.
2. Insert the tube securely into the rubber inlet of the pump with the arrow on the tube pointing toward the pump.
3. Make certain the pump handle is all the way in. Align the guide marks on handle and pump body.
4. Pull the handle all the way out until it locks on 1 pump stroke (100 ml). Wait 2 minutes.
5. Read concentration by comparing the color standard enclosed in the tube box.
6. The Gastec detector tube No.30 cannot use again even the tube does not stain after 1 pump stroke.

**CORRECTION FOR TEMPERATURE, HUMIDITY OR PRESSURE :**

Calibration of the Gastec detector tube No.30 is based on a tube temperature of 20°C (68°F) and not the temperature of the gas being sampled, approximately 50% relative humidity and normal atmospheric pressure. No correction is required for tube temperature of 0° - 40°C (32° - 104°F) and for relative humidity of 0 - 100%. To correct for pressure, multiply by

$$\frac{760}{\text{Atmospheric Pressure ( mmHg )}}$$

**INTERFERENCES :**

Substance	Concentration	Interference	Changes color by itself to
Acetylene		} Produce two layers (yellowish brown & dark brown)	} Dark brown
Carbon monoxide			
Hydrogen sulfide			
Ethlene		+	Yellowish brown

**DANGEROUS AND HAZARDOUS PROPERTIES :** Flammable Limits : 4.0 - 75 %

SEE OPERATING INSTRUCTIONS INCLUDED WITH THE GASTEC MULTI-STROKE GAS SAMPLING PUMP.