

# Gas Detector Tubes

*Precision Measurement of Trace-Level Gases and Vapors*

## Sensidyne AP-20S Tube Pump

- ✓ Lightweight with an Ergonomic Design
- ✓ Spark-proof if Dropped & Corrosion-resistant
- ✓ Flow Finish Indicator for Error Free Samples
- ✓ Integrated Tube Cutter with Storage for Tips
- ✓ Lifetime Warranty

## Sensidyne Gas Detector Tubes

- ✓ Test for Known or Unknown Substances
- ✓ Tubes for Over 300 Gases & Vapors
- ✓ Precision Measurement to Trace Levels
- ✓ Shatterproof Tubes for Safe Handling
- ✓ Low Cost Per Sample

The Sensidyne Gas Detector Tube System is the quality-standard in the industry and the first detector tube pump with an antibacterial grip. Detector tubes safely allow users to perform field screening and tests for the presence of hazardous and toxic gases, and chemical vapors at a very low cost-per-sample. Gas detector tubes from Sensidyne are precision tubes offering a higher level of accuracy and repeatability for applications where results matter.

Sensidyne detector tubes are easy to use and provide a low-cost method of routine or spot sampling for gases and vapors. When sampling for a known target gas, select from one of our detector tubes for literally hundreds of gases. When the target gas or substance is unknown our specialty HazMat kit provide an excellent answer for quick identification and measurement of the unknown substance.

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## Precision Measurement of Trace-Level Gases and Vapors



### Sensidyne AP-20S Gas Detector Tube Pump

The AP-20S detector tube pump combines precision, ease-of-use, speed, and durability. The single stroke operation is fail-safe locking in two positions (50 ml or 100 ml) to overcome the shortcomings of bellows style pumps. The flow-finish indicator alerts the user to sample completion. The antibacterial sure-grip is ergonomically designed to provide comfort and ease for hands of any size including those wearing gloves. The AP-20S comes with a lifetime warranty and is the only approved pump for use with Sensidyne precision gas detector tubes.

### Model AP-20S Gas Detector Tube Pump Kit (P/N 830-0001-01)

Kit includes one AP-20S Pump, Wrist Strap, Instruction Manual, Tube Handbook, Piston Grease, two Tube Connectors, and a Heavy-Duty Carrying Case.



### Sensidyne Precision Gas Detector Tubes

Measure and detect over 300 gases or vapors with Sensidyne precision tubes. Sensidyne gas detector tubes are machine manufactured to the highest tolerances for assured repeatability from one production lot to the next – a level of precision unmatched in the industry. The factory and U.S. distribution center are both ISO 9001 facilities for assured quality in manufacturing and handling.

Gases and vapors are measured in ppm, mg/l, or % depending on the target substance to be measured and desired range. The calibration curve on most tubes is a straight line, scale intervals are equal. This means you can measure concentrations above or below the printed scale by simply increasing or decreasing the number of pump strokes, per indication on the tube instruction sheet.

See the Sensidyne Detector Tube Handbook (P/N 7013584) or visit the Sensidyne website for available tubes and their specifications.

### Sensidyne HazMat-III Kit (P/N 7013627)

The HazMat-III Kit is a portable hazardous material detection kit that is lightweight, rugged, and capable of on-the-spot detection of numerous airborne contaminants. The kit requires no electrical power or user calibration and comes with a durable case and the 18 types of detector tubes required for the Logic Chart III. *HazMat Kit shown on right.*

### How Does It Work?

Each detector tube contains a reagent specifically sensitive to a particular vapor or gas. These reagents are on fine-grain silica gel, activated alumina or other absorbing media (depending upon application requirements), inside a constant inner diameter, hermetically sealed glass tube. Most Sensidyne detector tubes are “direct-reading” with calibration markings on the tube.

Operation is simple and accurate. Break off both the ends of a tube in the convenient tube-tip breaker, insert the tube into the AP-20S pump, and pull out the pump handle.

A precisely measured volume of ambient air is drawn inside the tube where it contacts the reagent. Instantly, the reagent changes color. The reagent reacts quantitatively to provide a length-of-stain indication. The farther the color stain travels along the tube, the higher the concentration of gas. Note the scale mark on the tube where the stain stops and that's the measurement.

