

MODEL 850 Investigator's Aid

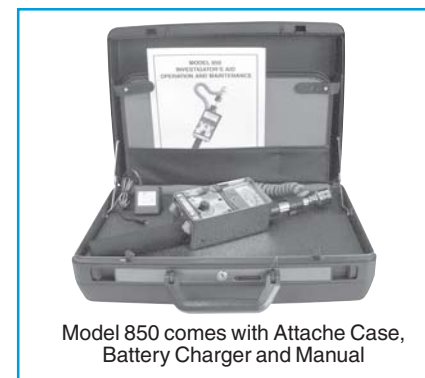
For Detection of Hydrocarbons, Petroleum Volatiles and Gas

FEATURES :

Retractable Probe with Sensor Guard- Solid State Sensor is plug-in type housed in a protective cone mounted at the tip of a telescopic-probe (18" retracted/46" extended). Provides operator a reasonable distance from suspect toxic material. • **High Sensitivity** • **Electronic Purge-** quick recovery of sensor element. Useful when rapid, multiple samples are necessary. • **Mute Switch-** Turns off audio and permits discreet investigation. • **Dual Batteries** • **Charge Indicator Light-** Glows when batteries are taking a charge. • **Audio and Visual LED Indicators** • **Meter Readout-** Provides visual indication of relative concentrations of hydrocarbons. Useful for detecting very small amounts of hydrocarbons or accelerants. • **Hi-Lo Range Switch-** Changes sensitivity of unit – Permits meter indication in areas of high concentration. Aids in pinpointing hydrocarbon source. • **Battery Transfer-** The Model 850 is equipped with two Nickel Cadmium rechargeable batteries. Each battery will supply four hours of operation. If operator should forget to charge unit, a spare battery will be available by simply switching from "A" battery to "B" battery via the battery transfer switch provided. • **Self-Storing Chrome Finished All Steel Enclosure-** The Model 850 is housed in a steel enclosure that measures 5.75" long, 2.5" wide and weighs two pounds. The retractile sniffing probe retracts to 18" which permits easy storage of unit. • **Made in U.S.A.**

The Model 850 Investigator's Aid Hydrocarbon/Accelerant/ Gas Detector incorporates advanced signal processing techniques in combination with a ruggedly constructed detector to bring you the most advanced survey tool available. This unit will detect the presence of hydrocarbons that may be present at the fire scene and is equally effective as a general purpose gas detector. It is capable of detecting gas leaks of less than 1 cu. ft. per year or gas concentrations of less than 50 parts per million (methane used as test gas). The Model 850 is simple to operate: Simply pull out retractile sensor probe, allow several minutes for warm up, then scan area of concern holding sensor approximately 1/2 inch from suspect material while observing meter. If a hydrocarbon is present, a deflection of the meter will occur, followed by a series of beep tones in synchronism with two indicator lights (red LED's). The more aerosol-born particles that exist, the more volatile the hydro-

carbon is and the faster the beep rate will become. The Model 850 is equipped with a Hi-Lo range switch that permits detection of extremely small amounts of hydrocarbon. Because the Model 850 has a retractile probe sensor, it can easily be used while walking an area of concern (as if using a walking cane). This feature makes the 850 useful as a survey type tool for detecting Leaking Underground Storage Tanks (LUST) or gasoline leaks that have seeped into sewer lines. The 850 is equally effective for detecting methane outgassing (landfills), inspecting pipelines and a host of other applications.



SOME ACCELERANTS, HYDROCARBONS & GASES DETECTED

Gasoline	Paint Thinner	Ethylene Oxide	Freon 22	Ethylene
Benzene	Turpentine	Ammonia	Freon 113	Hydrogen
Acetone	Ether	Methane	Freon 502	Ethylene Oxide
Kerosene	Hexane	Methyl Chloride	Formaldehyde	Chloropicrin
Diesel Fuel	Butane	Methylene Chloride	Vinyl Chloride	Halon 1211
Fuel Oil	Carbon Monoxide	Trichlorethane	Methyl Mercaptan	Halon 1301
Propane	Ethane	Trichlorethylene	Methyl Ethyl Ketone	Acrylonitrile
Jet Fuel	Pentane	Sulfur Dioxide	Methyl Acetate	Naphtha
Alcohol	Hydrogen Sulfide	Freon 12	Dimethyl Amine	
	Freon 11	Freon 21	Ethanol	

MODEL 851 Investigator's Aid

For Detection of Hydrocarbons, Petroleum Volatiles and Gas

FEATURES :

Retractable Probe with Sensor Guard-Solid State Sensor is plug-in type housed in a protective cone mounted at the tip of a telescopic-probe (18" retracted/46" extended). Provides operator a reasonable distance from suspect toxic material. • **Calibrated Operation** • **High Sensitivity** • **Electronic Purge**-Permits quick recovery of sensor element. Useful when rapid, multiple samples are necessary. • **Sensor Shield**-Provides a protective sensor enclosure. • **Mute Switch**-Turns off audio and permits discreet investigation. • **Charge Indicator LED Light**-Glowes when batteries are taking a charge. • **Meter readout**-Provides visual indication of relative concentrations of hydrocarbons. Reads % Lower Explosive Limit (L.E.L.) and parts per million (ppm). • **Two Modes of Operation** • **Mode Select Control**-Permits choice of either high sensitivity mode or calibrate mode of operation. High sensitivity is used to locate trace amounts of hydrocarbons. In the calibrate mode, meter displays concentration of gas in % Lower Explosive Limit (L.E.L.) (methane test gas). • **Two NICAD Batteries** • **Battery Transfer**-The Model 851 is equipped with two Nickel Cadmium rechargeable batteries. Each battery will supply 4 hours of operation. If operator should forget to charge unit, a spare battery will be available by simply switching from "A" battery to "B" battery via the battery transfer switch provided. Total operating time 8 hours. • **Self-Storing Chrome Finished All Steel Enclosure**-The Model 851 is housed in a steel enclosure that measures 5.75" long, 2.5" wide and weighs two pounds. The retractile sniffing probe retracts to 18" which permits easy storage of unit. • **Made in U.S.A.**

The Model 851 Investigator's Aid is a precision instrument designed specifically for detecting petroleum volatiles/hydrocarbons and natural gas. The Model 851 incorporates advanced signal processing techniques in combination with a ruggedly constructed detector to bring you the most advanced survey tool available. The detector features two modes of operation: a high sensitivity search mode for locating very small gas leaks and a calibrated mode of operation that indicates 0% to 100% of the lower explosive limit (LEL), methane used as the test gas. The Model 851 is simple to operate. Pull out retractile sensor probe, allow several minutes for warm-up, then scan area of concern, holding sensor approximately 1/2 inch from suspect source. If hydrocarbon is present, a deflection in the meter will occur, followed by a series of audible beep tones in combination with two flashing visual indicators. The more volatile or higher the gas concentration, the more rapid the beep tones occur.

The Model 851 has a retractile sensor probe that permits easy access to hard to reach places. This detector can be used as a general purpose survey tool while walking an area of concern (as if using a walking cane). This feature makes the Model 851 useful as a survey tool for detecting leaking underground storage tanks (LUST) or gasoline leaks that have seeped into sewer lines. The Model 851 is equally effective for detecting methane outgassing (landfills), inspecting pipelines and a host of other applications. A 10' extension cord for the sensor is available as an option. This extension cord is useful for lowering into inspection pipes and other confined spaces.



Model 851 comes with Attache Case, Battery Charger and Manual

SOME ACCELERANTS, HYDROCARBONS & GASES DETECTED

Gasoline	Ether	Methane	Freon 113	Hydrogen
Benzene	Hexane	Methyl Chloride	Freon 502	Ethylene Oxide
Acetone	Butane	Methylene Chloride	Formaldehyde	Chloropicrin
Kerosene	Carbon Monoxide	Trichlorethane	Vinyl Chloride	Halon 1211
Diesel Fuel	Ethane	Trichlorethylene	Methyl Mercaptan	Halon 1301
Fuel Oil	Pentane	Sulfur Dioxide	Methyl Ethyl Ketone	Acrylonitrile
Propane	Hydrogen Sulfide	Freon 12	Methyl Acetate	Naphtha
Jet Fuel	Freon 11	Freon 21	Dimethyl Amine	
Alcohol	Ethylene Oxide	Freon 22	Ethanol	
Paint Thinner	Ammonia		Ethylene	
Turpentine				