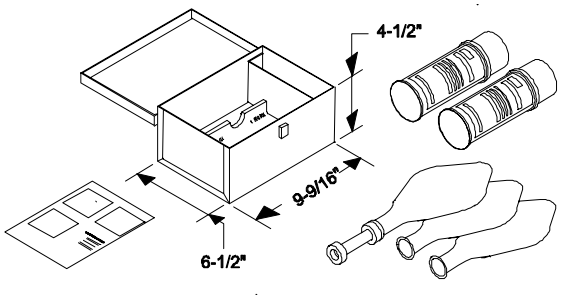
SECTION I

INDICATOR CALIBRATION KIT
BACHARACH GN TYPE "E" II

NSN 6665-01-188-4542

WT. 5.0 lbs. **VOL.** 279.6 in.^{3}



DESCRIPTION: Calibration kit.

USE: Used to calibrate the Bacharach GN Type "E" II Combustible Gas Indicator.

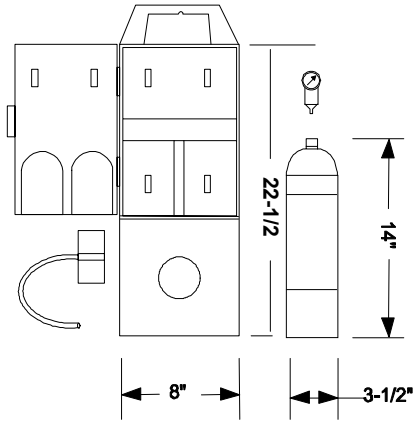
USE TIP: Requires test gas: acetylene P/N 51-2270.

REF: Gas Free Engineering Kit.

INDICATOR CALIBRATION KIT - BIO-SYSTEMS
FOUR GAS ANALYZER

NSN 4240-LL-H52-9750

WT. 4.7 lbs. **VOL.** 810.0 in.^{3}



DESCRIPTION: Bio Systems calibration kit for the Four Gas Analyzer.

USE: Used to calibrate the Four Gas Analyzer

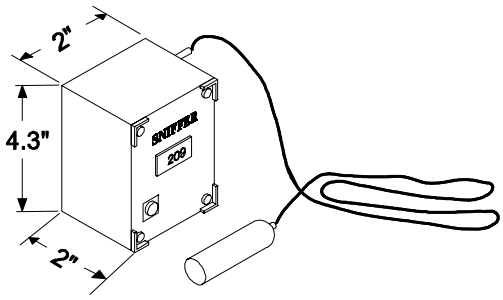
USE TIP: Calibrate IAW PMS requirements. Use only Bio System calibration gas (54-9044E).

REF: Gas Free Engineering Kit.

INDICATOR - OXYGEN
MODEL 103 BACHARACH

NSN 6680-01-209-5449

WT. 0.7 lbs. **VOL.** 17.2 in.^{3}



DESCRIPTION: This hand-held, portable unit detects oxygen concentrations between 0-25%. Audible and visual alarms are triggered when the oxygen level falls below the oxygen set point (19.5%). A switch can disable the audible alarm. The audible alarm persists until the oxygen level rises above the alarm set point.

USE: Indicator used for gas free engineering and damage control on surface ships only.

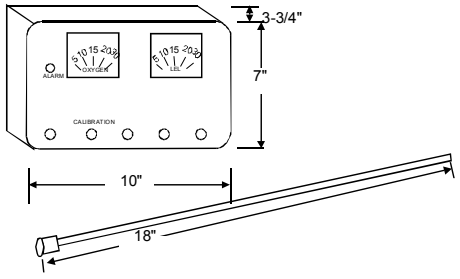
USE TIP: The oxygen concentration detector is started by installing the oxygen cell and the battery. Removing the battery turns the unit off. There is no on/off switch because the oxygen cell functions whether or not the battery is connected. With normal use, the battery life is about three months. A battery symbol is the display that indicates a low battery condition. An oxygen cell provides a working life of approximately six months.

REF: Gas Free Engineering Kit.

INDICATOR - OXYGEN/COMBUSTIBLE
MODEL 260 MSA

NSN 6665-01-115-7666

WT. 7.5 lbs **VOL.** 262.5 in.^{3}



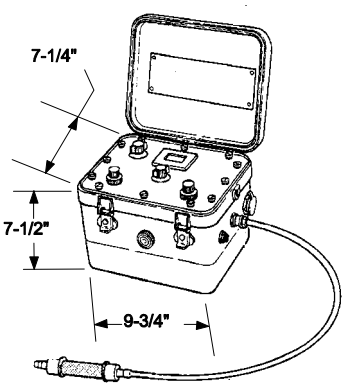
DESCRIPTION: Handheld alarm/indicator which detects oxygen levels and combustible gas levels in the atmosphere.

USE: Alarm/Indicator used for gas free engineering and damage control on surface ships.

USE TIP: When not in use, remove battery and store with indicator.

REF: Gas Free Engineer Kit.

INDICATOR - COMBUSTIBLE GAS
BACHARACH (MODEL 514)



NSN 6665-01-294-8859

WT. 11.0 lbs. **VOL.** 534.3 in.^{3} (indicator)
WT. 30.0 lbs. **VOL.** 4,431.0 in.^{3} (indicator w/ carrying case)

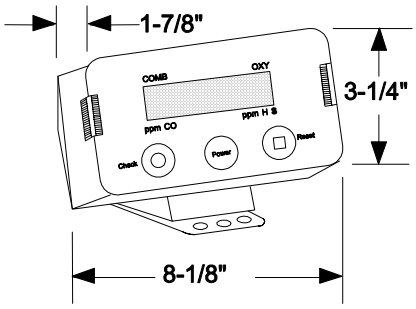
DESCRIPTION: The Bacharack Model 514 Combustible Gas Indicator includes: indicator, hydrogen cal. tank, 5 ft hose assembly, regulator assembly, O_2 cell assembly, probe assembly, carrying strap, drying tube, 12V DC charger cord, 120V AC charger cord, 230V AC charger cord, sample line kit, 15 ft hose assembly and methane cal tank.

USE: Used in shipboard gas free operations.

USE TIP: When not in use, remove battery and store with indicator. Not required on MHC Class ships.

REF: Gas Free Engineer Kit.

INDICATOR - COMBUSTIBLE GAS
FOUR GAS ANALYZER
BIO-SYSTEMS



NSN 4240-01-467-8854

WT. 6.2 lbs. **VOL.** 53.6 in.^{3}

DESCRIPTION: The lightweight, portable gas analyzer/alarm for both gas free testing and emergency environments. Model 3210-LAP.

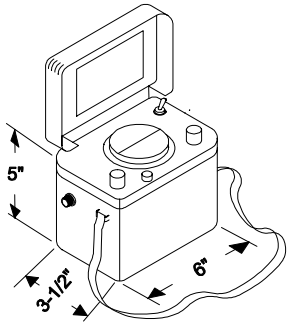
USE: Used in Gas Free Operations to test for O_2, CO, H_2S, and Combustible (LEL). A three push-button operation enables the analyzer to be calibrated and measure combustibles, oxygen and toxic gases close-in or at a distance using diffusion or pumped sampling with an add-on low-flow pump module. The portable gas analyzer/alarm provides the following:

- Rechargeable battery powered, with battery conservation feature
- Lightweight, portable and simple to operate, calibrate and maintain
- Multi-gas detection and monitoring (four gases to meet Navy shipboard requirements: combustible (LEL), oxygen, carbon monoxide and hydrogen sulfide)
- Rugged construction and intrinsically safe for use in hazardous and toxic environments
- Accuracy (1% or less lower explosive limit for combustibles, 0.1% or less for oxygen, and one part per million or less for toxic gases).

USE TIP: For operating procedures refer to Section 2 of Passport Personal Alarm Instruction Manual provided with the instrument. Stow in DCRS.

REF: Gas Free Engineer Kit.

INDICATOR - COMBUSTIBLE GAS
BACHARACH, GN TYPE II



NSN 6665-00-292-9945

WT. 6.0 lbs. **VOL.** 105.0 in.^{3}

DESCRIPTION: This Combustible Gas Indicator has a catalytic fil f a balanced electrical circuit. Combustible gases are heated by the filament which thereby increases the filament temperature and unbalances the circuit which deflects the indicator needle. The deflection is read as percent of gas concentration.

USE: This hand-held, portable instrument is used to detect miscellaneous combustible gases or vapors and atmospheres containing leaded gasoline vapors, 0 to 100% explosive limit. It is used in conjunction with the oxygen analyzer to certify gas-free tanks or voids prior to entry. Measurements taken indicate a sum of all combustible gases.

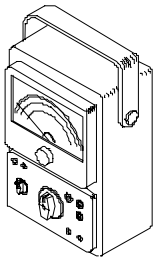
USE TIP: Instruction book and batteries included with a metal carry case fitted with shoulder strap.

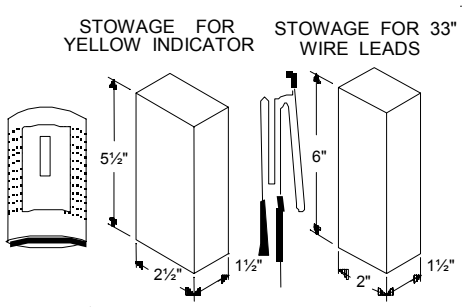
REF: Gas Free Engineering Kit.

INDICATOR - VOLT FREQUENCY

NSN 6625-00-132-1196

WT. 0.8 lbs. **VOL.** 65.0 in^3





OLD STYLE

DESCRIPTION: Hand-held portable voltage frequency indicator.

USE: Used by the repair party electrician to check electrical equipment and circuits during casualties.

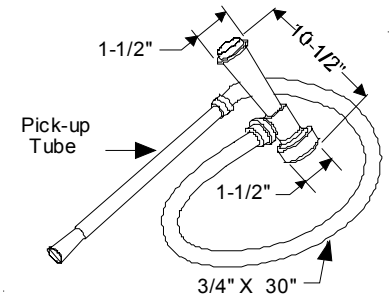
USE TIP: This indicator should be verified on a known voltage source before use.

REF: Electrical Repair Kit.

INLINE AFFF EDUCTOR - 1-1/2" NSPH, 95 GPM

NSN 4210-01-112-3081

WT. 7.0 lbs. **VOL.** 393.7 in^3



DESCRIPTION: Air foam producing nozzle for general AFFF application in fire fighting operations.

USE: Used with the 95 gpm vari-nozzle and operates in the same manner as the Navy pick-up tube. Can be used to augment installed systems or serve as primary system when installed systems are inoperative. Connects to 1-1/2 inch fire hose. The male end of the hose line feeding seawater to the eductor is threaded into the female end of the eductor. Seawater passing through the eductor causes a suction in the pickup tube which draws AFFF concentrate from the five gallon AFFF container, mixing the AFFF concentrate and seawater at approximately a 6% ratio.

USE TIP: Tech Manual No. 2900-US-0-1-31-002.

REF: Firefighting/Access Equipment Kit.
