

## **SPAN CHEK™ Portable Calibrator** **Calibrates Environmental Monitors**



### **DESCRIPTION**

The **Span Chek™** is a portable instrument designed for field calibration of toxic gas analyzers, area monitors, and detectors. The unit may be used with passive sensors as well as instruments that have a built-in sample pump. Interchangeable permeation tubes are used to provide a constant output of the toxic gas. This constant output is mixed with a much larger controlled flow of ambient air to generate an accurate concentration of the standard test mixture.

The instrument is designed to generate concentrations from below 1 ppm to over 100 ppm. Concentration is varied by changing the dilution air flow rate, the permeation tube temperature, or the number of permeation tubes used. It can be adapted to produce mixtures of a variety of compounds by installing the appropriate types of permeation tubes.

The **Span Chek™** is self-contained and portable. Dilution air is provided by a small internal compressor. Ambient air is drawn into the unit and purified by passing it through a chemical cartridge type filter. The permeation tube oven temperature is controlled at a pre-set point of either 30, 35, 40, or 50° C. Power is provided by a rechargeable, lead acid battery.

### **Benefits Of Using Span Chek™**

#### ❖ **Safe**

- No high pressure cylinders required
- Removes risk of exposure

#### ❖ **Repeatable**

- Drift-free output
- Can calibrate all sensors to the same standard

#### ❖ **Easy To Use**

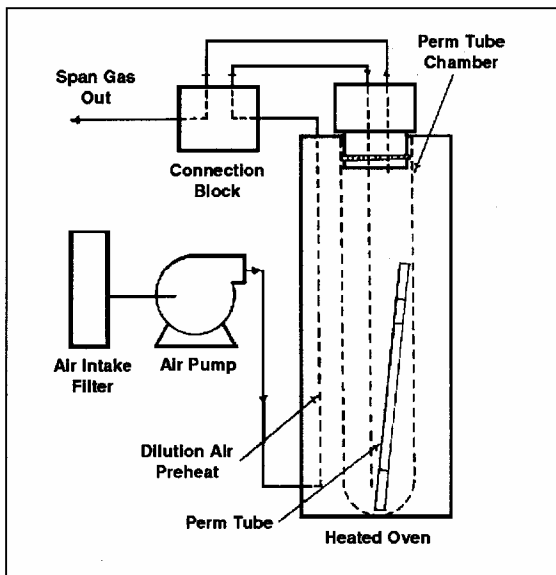
- Set the air flow -- no other adjustments required
- Operates over 8 hours without recharging

#### ❖ **Economical**

- No false results
- Reduces the time required for calibration
- One permeation tube can do hundreds of calibration checks

### **Calibration for the following gases:**

- Hydrogen Sulfide
- Sulfur Dioxide
- Methyl Mercaptan
- Chlorine
- Hydrogen Cyanide
- Hydrogen Fluoride
- Ammonia
- Ethylene Oxide
- Nitrogen Dioxide



**Flow Diagram  
SPAN CHEK™**

The output of the **Span Chek™** is connected directly to an analyzer or to an appropriate chamber placed over the sensing head of a passive detector. In this case, the calibration mixture flows into the chamber and surrounds the sensor head. When calibration is complete, the chamber is removed and the sensor returns to normal service. The calibration mixture simulates the actual sample in all respects including relative humidity and oxygen content.

## FEATURES

- ✓ Internal compressor - provides dilution air
- ✓ Rechargeable, long life battery - for over 8 hours continuous operation
- ✓ Intake filter - cleans ambient air
- ✓ Exhaust filter - scrubs vent exhaust

## SPECIFICATIONS

**Concentration Range:** 0.1 - 100 ppm

**Oven Capacity:** 3/16" diameter type SRT tube up to 5 tubes  
 1/4" diameter type SRT2 or HRT tube up to 4 tubes  
 Maximum internal diameter 3/4"  
 Maximum overall length 15 cm

**Output Flow:** 500 - 1500 cc/min.

**Operating Temperature:** Specify 30, 35, 40, or 50° C (Interchangeable)

**Ambient Range:** 40° F (5° C) to 95° F (35° C) or 0.5° C below set point

**Battery Pack:** 12VDC, Rechargeable

**Power:** Approximately 5 watts, with 15 watt peak. Can operate from internal battery, external battery, or external battery charger/power supply.

**Dimensions:** 11" wide x 14" high x 4 1/2" deep

**Weight:** 11.5 lb

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