KIN-TEK

The Calibration Specialists

SPAN CHEK™ 8700 PORTABLE CALIBRATOR

Calibrates Environmental Gas Monitors, Detectors, and Sensors



Model SC8700 Description

The **Span Chek™ 8700** is a portable instrument designed for field calibration of toxic gas analyzers, area gas monitors, and gas detectors or sensors. 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 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.

Calibration for the following gases:

- **Hydrogen sulfide**
- **Sulfur dioxide**
- **Methyl mercaptan**
- **Chloride**
- **Hydrogen cyanide**
- **Hydrogen fluoride**
- **Ammonia**
- **Ethylene oxide**
- **Nitrogen dioxide**
- **And others**

Operation

The **Span Chek™ 8700** 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 as a pre-set point of either 35, 40, or 50°C. Power is provided by a rechargeable battery.

The output of the **Span Chek™ 8700** is connected directly to an analyzer or to an appropriate chamber place over the sensing head or 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.

Benefits

- **Safety**
  - 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

Features

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

Specification

Oven	Concentration Range:	1 – 100 ppm
	Oven Capacity:	3/16” diameter type SRT tube up to 5 tubes
		1/4” diameter type SRT-2 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:	35°C to 50°C (Controlled by PID Controller)
	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
	Dimension:	11” wide x 14” high x 4 1/2” deep
	Weight:	11.5 lbs

Represented by:

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Rev2SC160518-LM
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