



**Technology of the Future
Protection for today**

ESP Safety, Inc. supplies Gas Detector Calibration Kits for use with ESP's gas detectors. Although Every ESP Safety, Inc. gas detector is factory-calibrated prior to shipment, the gas response of the detectors should be field-verified prior to commissioning the detectors for operation. In addition, periodic calibration is essential to ensure that gas detectors are operating properly.

ESP Gas Detector Calibration Kits are available for a wide variety of gases. Consult with ESP Safety for a list of the available gas types.

Typical calibration gases and cylinder volumes available:

Combustible Gas Detectors

- Methane (CH₄)
- Propane (C₃H₈)

Toxic Gas Detectors

- Hydrogen Sulfide (H₂S)
- Chlorine (Cl₂)
- Oxygen (O₂)
- Carbon Monoxide (CO)
- Ammonia (NH₃)
- Nitrogen Dioxide (NO₂)
- Sulfur Dioxide (SO₂)
- Hydrogen (H₂)
- Hydrogen Chloride (HCl)

Reactive gases are supplied in 58 liter cylinders. Non-reactive gases are supplied in 103 liter cylinders. Refer to Page 2 for gas and cylinder sizes.

Consult with ESP Safety for availability of other gases.



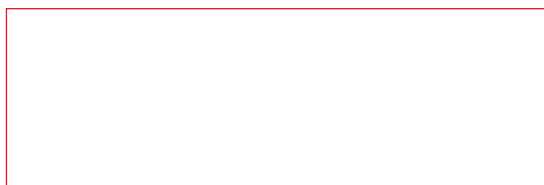
Optional Accessories



Recycling Tool



Represented By



CALIBRATION KIT

Each Calibration Kit Includes:

A. 2-Gas Kit

- One (1 ea) Zero Gas Cylinder
- One (1 ea) Mid-Span Gas Cylinder
- One (1 ea) Regulator
- One (1 ea) 36" Length of Clear Flex Tubing
- One (1 ea) Calibration Cup
- One (1 ea) Carrying Case

B. Single Gas Kit

- One (1 ea) Mid-Span Gas Cylinder
- One (1 ea) Regulator
- One (1 ea) 36" Length of Clear Flex Tubing
- One (1 ea) Calibration Cup
- One (1 ea) Carrying Case

Optional Accessories:

- Cylinder Recycling Tool

Standard Calibration Gases:

ESP Part No.	Gas	Concentration	Cylinder Size	Balance Gas
580-0006	Methane (CH ₄)	50% LEL (2.5% vol)	103 liter	N ₂
580-0005	Methane (CH ₄)	80% LEL (4% vol)	103 liter	N ₂
580-0017	Propane (C ₃ H ₈)	50% LEL (1.05% vol)	103 liter	N ₂
580-0018	Propane (C ₃ H ₈)	95% LEL (2% vol)	103 liter	N ₂
580-0033	Hydrogen (H ₂)	25% LEL (1% vol)	103 liter	Air
580-0014	Hydrogen (H ₂)	50% LEL (2% vol)	103 liter	Air
580-0029	Hydrogen (H ₂)	75% LEL (3% vol)	103 liter	Air
580-0034	Ammonia (NH ₃)	25 ppm	58 liter	N ₂
580-0013	Ammonia (NH ₃)	90 ppm	58 liter	N ₂
580-0020	Hydrogen Sulfide (H ₂ S)	10 ppm	58 liter	N ₂
580-0009	Hydrogen Sulfide (H ₂ S)	25 ppm	58 liter	N ₂
580-0011	Hydrogen Sulfide (H ₂ S)	100 ppm	58 liter	N ₂
580-0026	Nitrogen Dioxide (NO ₂)	5 ppm	58 liter	Air
580-0027	Nitrogen Dioxide (NO ₂)	10 ppm	58 liter	Air
580-0007	Oxygen (O ₂)	15% vol	103 liter	N ₂
580-0008	Oxygen (O ₂)	25% vol	103 liter	N ₂
580-0035	Sulfur Dioxide (SO ₂)	5 ppm	58 liter	N ₂
580-0036	Sulfur Dioxide (SO ₂)	10 ppm	58 liter	N ₂
580-0015	Zero Air	THC <0.5 ppm	103 liter	n/a
580-0016	Zero Nitrogen	99.908% vol, THC <0.5 ppm	103 liter	n/a
611-0014	Gas Cylinder Recycling Tool			
* Contact ESP Safety for compounds, concentrations or multi-gas blends not shown above.				

Ordering Instructions:

When ordering a calibration kit, supply the following information:

- Calibration Gas Name
- Calibration Gas Concentration
- Zero Gas Required (Yes/No)
- Cylinder Recycling Tool Required (Yes/No)
- Model Number(s) of ESP Safety Gas Detector to be Tested

Cylinder Specifications:

Non-Reactive Gases

Capacity: 103 Liters (3.64 Ft³)
Maximum Pressure: 1000 psig
Material of Construction: Steel
Dimensions: 3¼" Dia x 13½" Lg
DOT Specification: 39NRC
Thread Connection:
CGA C10: 5/8"-18
Required Regulators: CGA C10 Series (p/n 590-0002)

Reactive Gases

Capacity: 58 Liters (2.05 Ft³)
Maximum Pressure: 500 psig
Material of Construction: Aluminum
Dimensions: 4¼" Dia x 14½" Length
DOT Specification: 39NRC
Thread Connection: CGA C10: 5/8"-18
Required Regulators: CGA C10 Series (p/n 590-0002)

