

Scientific & Technical Gases Ltd

ACD GAS GENERATORS

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Scientific and Technical Gases are now a selected international distributor of ACD Gas Generators. ACD, based in the USA, have been producing quality generators for over 20 years.

The lightweight generators are designed to produce accurate ppm levels of calibration gases with very precise flow rates.

The gas generator uses an electro-chemical generating cell to provide a calibration standard for accurately testing gas sensors. The generating cell can be replaced in the field to give a range of gas mixtures.

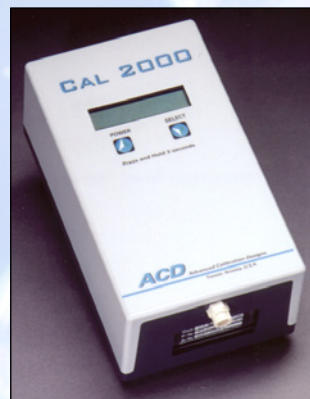
KEY BENEFITS

- Can provide accurate low ppm levels of Cl_2 and H_2S ppm (to 0.05ppm)
- Can provide accurate low ppm levels of HCN (to 0.5ppm)
- Can provide accurate low ppm levels ClO_2 (0.5ppm to 5.0ppm)
- Easily interchangeable cells allows a range of gases to be produced by one unit
- Non-hazardous product so can be carried as hand luggage on an aeroplane
- Cost effective production of calibration gases for certain applications

PRODUCT RANGE

CAL 2000

Provides unmatched versatility and accuracy in producing corrosive calibration gases. Fully adjustable ppm levels and flow rates. Field replaceable electrochemical generating cells provide an NIST traceable standard for accurately testing Cl_2 , ClO_2 , H_2S , HCN and H_2 gas sensors. The CAL 2000 gas generator has a built-in mass flow sensor that automatically compensates for altitude and temperatures.



CAL 2000LT

Is an economical alternative to the CAL2000. The CAL 2000LT is available with a pre-set flow rate of 0.5 or 1.0 lpm and a fixed specified concentration of calibration gas. To change gas type or concentration, simply insert a different cell into the instrument.

HydroGen

The HydroGen gives unlimited hydrogen calibration gas using an "infinite life" electrochemical gas generating cell. The ppm and flow rate can be adjusted in the field. The generator has a built in mass flow sensor which automatically compensates the pump flow for altitude and pressure.

MiniBump

The MiniBump is specifically designed for applications where bump testing is required. Available in Cl_2 , H_2 , HCN and H_2S . Provides up to 1000 tests for each field replaceable generating cell. Wall mounting optional.

**WORLDWIDE
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PRODUCTS
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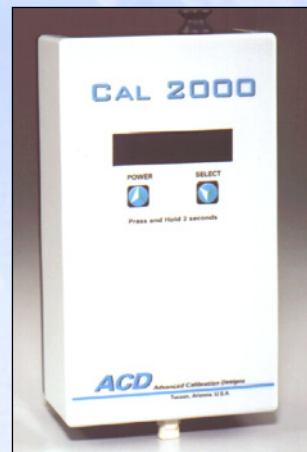
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GENERATOR SPECIFICATIONS

CAL 2000

The CAL2000 is a fully flexible instrument which can be set in the field to give a range of ppm levels and flow rates required.

Chlorine Micro Cell (Cl ₂)	0.05 - 1.0 ppm
Chlorine (Cl ₂)	0.5 - 50.0 ppm
Chlorine Dioxide (ClO ₂)	0.5 - 5.0 ppm
Hydrogen (H ₂)	0.5 - 50.0 ppm
Hydrogen Cyanide (HCN)	0.5 - 50.0 ppm
Hydrogen Sulphide MicroCell (H ₂ S)	0.05 - 1.0 ppm
Hydrogen Sulphide (H ₂ S)	0.5 - 50.0 ppm
(ppm is variable with flow rate, output given at 0.5 lpm)	



- Air Flow Rate (*with internal pump*) 0.2 to 1.0 lpm
- Sample draw rate (*with pump disabled*) 0.1 to 5 lpm
- Useful cell life = 50 hours
- L x W x H = 21.6 x 10.8 x 7.6 cm
- Weight = 1360g
- Operating Temperature = 0°C to 50°C
- Relative Humidity (*intermittent use*) 0-100%
- Accuracy = +/-10%
- Repeatability = +/-5%
- Battery Power = 4 x alkaline "C"
- Battery Life = 10 hours (@ 0.5 lpm)
- Warranty = one year (*see full terms and conditions*)
- Approvals = CSA Certified Intrinsically Safe/European Standards approval for Zone 1

CAL 2000LT

Same specification as above, but is supplied with a pre-set flow rate at either 0.5lpm or 1.0lpm and fixed gas concentration for each cell. Generating Cells are rated at 10 and 25 hours are available for Cl₂, H₂, HCN, and H₂S.



HydroGen

Produces H₂ from 50-500ppm @ 0.5lpm, range varies with flow rate. Flow rate from 0.05 - 1.0 lpm. Unlimited calibration gas generator cell.



MiniBump

A single cell can provide up to 1000 tests. Bump test time less than 120 seconds.

Cl ₂ - max 5 ppm	HCN - max 10 ppm
H ₂ S - max 25 ppm	H ₂ - max 25 ppm

- L x W x H = 10.4 x 6.0 x 3.0 cm
- Weight = 220g
- Operating Temp = -40°C to 50°C
- Battery Power = 2 alkaline "AA"
- Standards = CSA approved for Class 1, Division 1, Groups A, B, C & D
- CSA NRTL/C Exia T-6 approved intrinsically safe with CE mark
- Optional wall mounting unit available

