

SBA-5 CO₂ Gas Analyzer

With Optional H₂O Measurement

The SBA-5 is designed for accurate, reliable and continuous measurement of CO_2 . It is extremely easy to set up and integrate into your instrument or it can be used as a stand-alone gas analyzer. The SBA-5 features our innovative "Auto-Zero" technology ensuring long term stability, accuracy and calibration. The SBA-5 requires minimal maintenance without the need for factory recalibration that saves both time and money.

Product Features

- High precision, compact, non-dispersive infrared gas analyzer for CO₂
- Accuracy: < 1% over calibrated CO₂ range
- CO₂ ranges up to 100000 ppm (10%)
- Automatic pressure and temperature compensation
- Operation from 6-18 VDC power supply
- Small footprint (12 cm L x 3.5 cm H x 7.5 cm W)
- Powerful GAS software package
- Analog and digital output
- Low power consumption
- Low cost
- Available options include:
 - H₂O sensor (Solid state)
 - Sampling pump
 - Absorber column (for Zero)
 - -Enclosure



User Programmable

A perfect solution for custom applications and for users that demand accuracy, reliability and long term stability

Applications

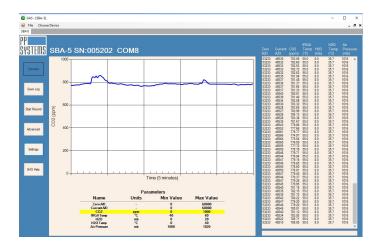
- Plant growth chambers
- Environmental control rooms
- Incubators
- Fruit storage
- FACE sites
- Breweries
- Indoor air quality and safety
- Industrial monitoring
- CO₂ leakage detection
- Oceanography
- Ambient air monitoring

The SBA-5 can be supplied in a rugged, anodized,
aluminum enclosure with convenient USB port, gas
connections and terminal block for sensor inputs/outputs.

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GAS Software

Our **GAS** (Gas Analysis Software) software package is available for use with the SBA-5 for monitoring, logging and recording environmental sensor data.



Solution for OEM Customers

Since 1984, PP Systems has partnered up with many OEM customers offering custom solutions that meet a wide variety of applications. Our CO₂ gas analyzers have the enviable reputation for being high quality, reliable, stable, accurate and versatile. If you have a requirement for an accurate CO₂ gas analyzer that requires minimal maintenance, please get in contact with one our experienced gas analysis experts or through our extensive network of over 40 distributors worldwide.

We look forward to working with you.

For further information, please contact us at:



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Technical Specifications Analysis Method Non-dispersive infrared, configured as an absolute absorptiometer with microprocessor control of linearization CO, Measurement Ranges 0-1000 ppm (µmol mol⁻¹) 0-2000 ppm (µmol mol-1) Please specify at time of order 0-5000 ppm (µmol mol-1) 0-10000 ppm (µmol mol-1) 0-20000 ppm (µmol mol-1) 0-30000 ppm (µmol mol-1) 0-50000 ppm (µmol mol-1) 0-100000 ppm (μ mol mol⁻¹) Readings are automatically corrected for temperature and pressure. **Pressure Compensation** 60-115 kPa Range Accuracy < 1% of span concentration over the calibrated range but limited by the accuracy of the calibration mixture Linearity < 1% throughout the range **Stability** Auto-Zero at regular intervals corrects for sample cell contamination, source and detector aging and changes in electronics. Calibration User programmable calibration (if required) Warm-up Time Approximately 15 minutes **Sampling Rate** 10 Hz. Sample data is averaged and output every 1.0 seconds. **Gas Flow Rate** 100-1000 cc/min (200-500 cc/min is optimal). **Terminal Block** 12 pin terminal block for system inputs and outputs **Analog Output** Dual 0-5V linear (CO₂ and H₂O) 4-20mA (CO₂ only) **Digital Interface** RS232 (Header and terminal block) USB (Mini Type B) **Sensor Input** 1 sensor input channel (0-1V) **Power Supply** 6-18 VDC **Power Consumption** Warm up: 9W Normal operation: 1.3W **Electrical Connections** USB (Mini Type B), 12 pin pluggable terminal block, 2 pin power input and 0.1" header (12 pin) **Gas Connections** Three barbed fittings (inlet, exhaust and zero) for use with 1/8" (.125") ID tubing **PCB Type Operating Temperature** -20 to +50 °C, non-condensing External filtration is recommended in dirty/ dusty environments. **Dimensions** 12 cm (L) x 3.5 cm (H) x 7.5 cm (W) (PCB only) 13 cm (L) x 4.5 cm (H) x 8 cm (W) (With enclosure) Weight 0.2 kg (PCB only) 0.4 kg (With enclosure) **Optional Accessories** • H₂O Sensor Sampling Pump

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PP Systems is continuously updating its products and reserves the right to amend product specifications without notice.

Absorber ColumnEnclosure

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Portable - Accurate - Reliable

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