



Introducing Spark CO₂!

Powerful Specifications:

- Trace CO₂ detection limit down to 250 ppb
- Range of 0-1500 ppm
- Wide dynamic measurement range
- Drift-free performance
- Compact footprint with rack mount option

Key Benefits:

- Low Cost of Ownership – no calibration or maintenance requirements
- Robust - Immunity to vibration
- Simple operation – no dedicated technicians required
- Serani™ interface software for remote analyzer control & data analysis



Trace CO₂ detection in Nitrogen Plants

N₂ Applications:

- Electronics industry - semiconductor fabrication
- Petrochemical Industry – inerting, purging, and safety assurance
- Pharma and Food industries - storage and packaging

N₂ Production Technologies:

- Cryogenic Air Separation to generate ultra-high purity N₂
- Pressure Swing Adsorption – use molecular sieve to adsorb oxygen and separate N₂ from the air
- Membrane Separation – selective permeation through membrane to separate N₂ from air – lower purity N₂, most economical





Ankersmid Process

NEW Spark CO₂ analyzer affords fast, accurate response and clean-up, with robust, drift-free performance

Often unmanned plants – meets requirement for automated solution: low maintenance and no calibration

Temperature-controlled analyzer enclosure available

Target customers: Industrial and Electronic Gas Companies



Spark vs. Incumbent Technologies

Attributes	Incumbent technologies	Spark CO ₂
Cost of ownership	High maintenance costs	Minimal maintenance costs
Calibration	Frequent zero/span - requires complex sampling systems; prone to drift	None required
Consumables	Calibration gases, service gases, light sources, separation columns, electrolyte solutions, purifiers	None required
Construction	Moving parts – subject to mechanical failure and instability	No moving parts
Interferences	Often subject to interferences	None
Ease of Use	Extensive training required	Easy and intuitive
Detection Limit	PPM/PPB detection limit	PPM/PPB detection limit
Hazardous area rating	Yes	Yes
Wall-mount configuration	Yes	Yes
Installation/service	Often complex	Simple
Measurement rate	Fast	Fast

Ankersmid Process

In-line-, Portable-, Extractive measurement, Service, Emission reporting & Systems

Ankersmid Process

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