

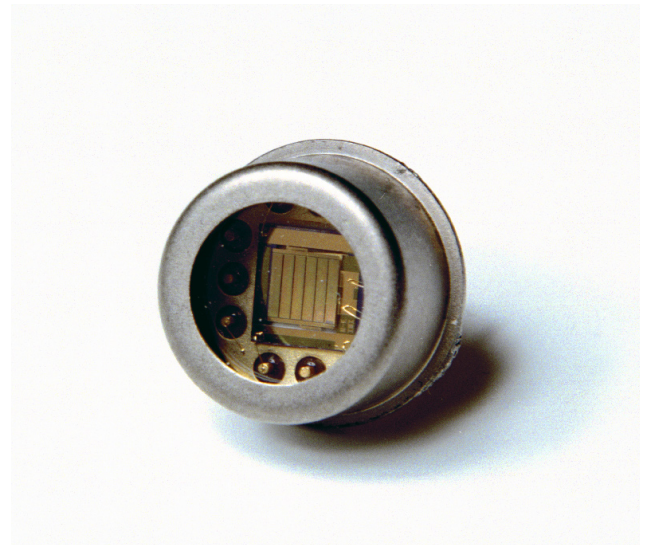


TunIR™ CO₂ IR Source

Gas specific IR output

DESCRIPTION

The TunIR-CO₂ emitters utilize a two-dimensional photonic crystal structure to tune and restrict the IR emission for output specific to the CO₂ sensing. The high CO₂ selectivity and overall sensor efficiency provide a high energy infrared signal with minimal power consumption, thus enabling sensitive measurements and prolonged battery operation. Each vacuum sealed device contains 2 elements which may be driven together or independently illuminated in pulsed or constant modes.



FEATURES & BENEFITS

- Wavelength Tuned
Output only at CO₂ wavelength
- Power Efficient
Prolonged battery operation
- Low Cost
High Volume Applications
- Bright IR Emission
Sensitive gas measurements
- MEMS Device
Pulsed or constant operation
- Vacuum Sealed
Intrinsically safe

APPLICATIONS

The power efficiency and tightly controlled spectrum of the TunIR-CO₂ make it ideal for battery powered NDIR CO₂ gas sensors including:

- HVAC indoor air quality
- Respiration monitoring
- Portable/ Fixed Instrumentation
- Leak detection
- Industrial safety
- Automotive
- Spectroscopy