

## A new generation NDIR sensors

Senseair Sunrise 006-0-0007 is a new generation NDIR sensors with Optical Solid State design. Electronics with no moving parts makes this sensor robust and resistant to vibrations. Any application with a tough environment or in environments with explosion risk is benefited by the solid state design.

It is also the first NDIR sensor with LED technology that truly saves power while maintaining a high precision. The sensor as an accuracy  $(CO_2) \pm 30$  ppm  $\pm 3\%$  of reading, and a power consumption 5 times lower than the other low power NDIR sensors on the markets. Average current  $45\mu$ A<sup>3</sup>.

Thanks to the built-in self-correcting ABC algorithm, you can mount and forget your sensor for the next 15 years and it will still be accurate, which is even more important when it comes to wireless applications.

## Standard specification

Measured gas Operating principle Measurement range (CO<sub>2</sub>)

Accuracy (CO<sub>2</sub>)

Peak current Steady state current during sampling Average current Measurement period

Power supply Dimensions Weight

Note 1:

Note 2: Note 3: Note 4: Carbon dioxide  $(CO_2)$ Non-dispersive infrared 400 – 5000ppm; extended range up to 10000ppm ±30ppm ±3% of reading <sup>1,2</sup> (extended range ±10% of reading) <125mA

99mA 45μA <sup>3</sup> Default: 16s, 8 samples (adjustable by host) 3.05 – 5.5V <sup>4</sup> 33.5 x 19.7 x 11.5mm 5g

## Key benefits

- Optical Solid State
- Ultra Low Power
- High Precision
- Robust
- Mass Production
- Self Correcting







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15 - 35°C, 0 - 80%RH, after three eight-day periods, each period followed

Specification is referenced to uncertainty of calibration as mixtures (±1%). Typical average current consumption @25°C

by ABC command set in the Calculation Control byte.

Unprotected against surges and reverse connection