

# Senseair Sunrise

## 006-0-0007



### A new generation NDIR sensor

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<sub>2</sub>)  $\pm 30\text{ppm} \pm 3\%$  of reading, and a power consumption 5 times lower than the other low power NDIR sensors on the markets. Average current 45 $\mu\text{A}$ .

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

|                      |  |
|----------------------|--|
| Article number       | 006-0-0007   |
| Operating principle  | Non-dispersive infrared                            |
| Measured gas         | CO <sub>2</sub>                                    |
| Measurement range    | 0–10000ppm   |
| Accuracy             | $\pm 30\text{ppm} \pm 3\%$ of reading <sup>1</sup> |
| Operating conditions | 0–50 °C<br>0–85% RH                                |
| Warm-up time         | 0s   |
| Response time        | 30s  |
| Power supply         | 3.05–5.5V  |
| Peak current         | < 125mA  |
| Average current      | 45 $\mu\text{A}$                                   |
| Communication        | UART, I <sup>2</sup> C                             |
| Outputs              | Digital  |
| Compliance           | ANSI/ASHRAE 62.1-2022<br>RESET grade A<br>WELL v2™ |
| Maintenance          | Maintenance free                                   |
| Life expectancy      | > 15 years   |
| Dimensions           | 33.5x19.7x11.5mm                                   |
| Weight               | 5g   |
| Storage conditions   | -40–70 °C  |

### Key benefits

- Compliant with ANSI/ASHRAE Standard 62.1-2022 +Addendum ab (October 31, 2023)
- Compliant with RESET grade A
- Compliant with WELL Building Standard® (WELL v2™)
- Optical Solid State
- Ultra Low Power consumption
- High Precision
- Robust
- Mass Production
- Self-correcting

Note 1:  $\pm 75\text{ppm}$  Accuracy at 1500–2500ppm (ANSI/ASHRAE compliance)  
Disclaimer: Please refer to product specification for the complete technical details.

