

# CO<sub>2</sub> & Temperature Sensor



CO<sub>2</sub> & Temperature Sensor

## Applications

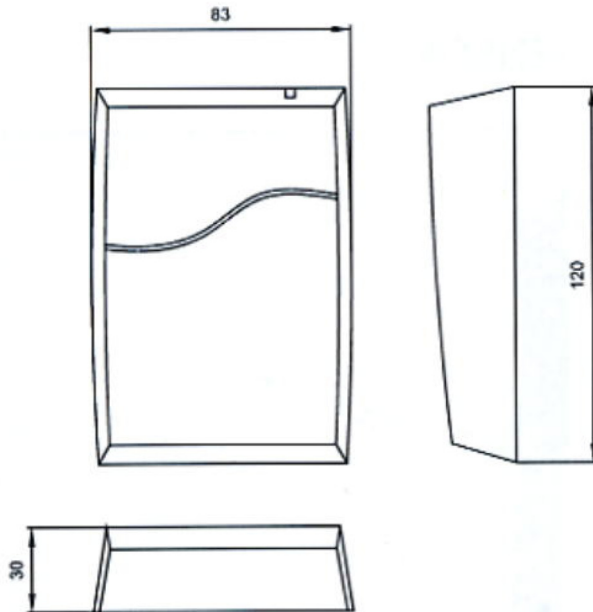


### Features:

- 2 outputs - Combined CO<sub>2</sub> and temperature transmitter
- It measures both CO<sub>2</sub> concentration and temperature in the ambient air, transforms the data into output signals and sends these values to an SE Controls control system
- Optional integral display
- Low profile case
- Unobstrusive sleek design
- Non - dispersive infra red measurement of CO<sub>2</sub>
- Internal use only
- Surface or back box mountable
- Integral self-test and diagnostics

# CO<sub>2</sub> & temperature Sensor

## Technical Drawing



The AutoCAD drawing for this product can be found at [www.secontrols.com](http://www.secontrols.com)

## Technical Data

## Sensor

<b>PRODUCT</b>	<b>CO<sub>2</sub> &amp; TEMPERATURE SENSOR</b>
<b>VOLTAGE</b>	<b>24V ac / V dc +/- 20%, 50-60Hz</b>
<b>OPERATING TEMPERATURE</b>	<b>0 to +50°C</b>
<b>POWER COMSUMPTION</b>	<b>&lt; 3 Watts average</b>
<b>STORAGE TEMPERATURE RANGE</b>	<b>-40 to +70°C</b>
<b>OPERATING HUMIDITY RANGE</b>	<b>0 to 95% RH (non-condensing)</b>
<b>WARM UP TIME</b>	<b>&lt; 1 min.</b>
<b>SENSOR LIFE EXPECTANCY</b>	<b>&gt;15 years</b>
<b>MAINTENANCE INTERVAL</b>	<b>No maintenance required</b>
<b>OPERATING PRINCIPLE</b>	<b>Non-dispersive infrared (NDIA) with automatic baseline correction</b>
<b>RESPONSE TIME</b>	<b>2 min. diffusion time</b>
<b>ACCURACY</b>	<b>+/- 1% of measurement range +/- 5% of measured value</b>
<b>MEASUREMENT RANGES</b>	<b>5 different sensor models from 0 - 3000 ppm to 0-10 &amp; vol.</b>
<b>TEMPERATURE SENSOR</b>	<b>Thermistor</b>
<b>ACCURACY / DIGITAL RESOLUTION</b>	<b>+/- 0.5°C / 0.1°C</b>
<b>PROTOCOL</b>	<b>SenseAir protocol</b>
<b>PC INTERFACE</b>	<b>RS232</b>
<b>DIMENSIONS</b>	<b>120 x 83 x 30mm (h x w x d)</b>
<b>PROTECTION DEGREE</b>	<b>IP30</b>

<b>PRODUCT</b>	<b>PRODUCT CODE</b>
<b>CO<sub>2</sub> &amp; TEMP SENSOR</b>	<b>NVS00020004</b>



Version 2.1