

Technical Information

Measuring principle	Dual wavelength non-dispersive infrared technology (NDIR)
Measurement range	0÷2,000ppm
Accuracy at 25°C and 1,013 mbar	< ± (50ppm +2% of measured value)
Response time	300 seconds
Temperature dependency	± (1 + CO ₂ concentration [ppm] / 1000)ppm/°C (-20...45 °C)
Sample rate	approximately. 15 seconds
Analog output	4÷20mA
Supply voltage	15÷35VDC
Current consumption	15 mA + output current
Current peak, maximum	350 mA for 0.3 seconds
Warm-up time	< 5 min
Case material	Polycarbonate
Protection class	IP54
Electrical connection	Screw terminals 2.5 mm ² or M12 plug
Working conditions	<ul style="list-style-type: none"> Operative: -20÷60°C - 0÷100 % RH (<i>non-condensing</i>) Storage: -20÷60°C - 0÷95 % RH (<i>non-condensing</i>)
Dimensions	101x80.6x46mm



CO₂ sensor for outdoor applications

The **EE820** measures reliably CO₂ concentration in harsh, demanding applications.

A multipoint CO₂ and temperature factory adjustment leads to excellent accuracy over the entire temperature working range.

The **EE820** incorporates a dual wavelength NDIR CO₂ sensor, which compensates for ageing effects, is highly insensitive to pollution and offers outstanding long term stability.

With its robust, functional IP54 enclosure and a special filter, the **EE820** is suitable for polluted applications such as agriculture and livestock barns.

The M12 connector facilitates the removal of the device before site cleaning operations.

Must be interfaced with [WSD12T-CO](#) and [SD12T-CO](#) dataloggers.

The features shown may be subject to change without notice.