ASCO CO$_2$ Gas Detectors

ASCO CO$_2$ Gas Detectors are used to protect personnel wherever CO$_2$ gas or dry ice is used in closed areas, for example during dry ice blasting or when producing dry ice. CO$_2$ being heavier than air effectively will create high CO$_2$ concentrations, especially in small rooms or basements where no fresh air is supplied.

ASCO CO$_2$ Gas Detectors ensure continuous and automatic CO$_2$ content measuring in the ambient air using infrared absorption measuring (NDIR). This technology employed the dectector is very troubleresistant to temperature variations or air draughts and therefore measures very accurately. The CO$_2$ gas detectors are very simple to install and no maintenance is needed due to the reliable measuring technology. It is a complete electronic system and, therefore, has no mechanical parts inside. All components are built into a splash proof box. The sensor is connected to the detector by a 5 m (196.85 in) standard cable, which can be shortened or extended as required.

Specifications Detector

Dimensions/weight:	160 × 65 × 130 mm (6.29 x 2.56 x 5.11 in) / approx. 600 g (1.32 lb)
Material box:	ABS plastic (IP54)
Resolution:	0.1 vol % CO$_2$
Voltage:	100 - 240 VAC (PNE) (power supply unit with wide voltage input) 50-60 Hz
Max power consumption:	approx. 5 W
Relay preliminary alarm/alarm:	250 VAC (ohmic load), 10 A
Analog output signal:	4 - 20 mA, burden 200 - 800 Ω

Specifications Sensor

Size/weight:	85 × 65 × 90 mm (3.35 x 2.56 x 3.54 in) / approx. 500 g (1.1 lb)
Material box:	aluminium (IP43)
Gas entry:	diffusion
Measuring method:	nondispersive infrared measurement (NDIR)
Measuring range:	0 - 5 vol % CO$_2$
Accuracy:	0.1 vol % CO$_2$
Operating temperature:	-10 to +50 °C

ASCO CO$_2$ Gas Detector: Standard scope of supply

ASCO CO$_2$ Gas Detector IV SP/MA

Potential free relay contact provided for additional external warning lights, fan etc.
4 - 20 mA output, e.g. for an output signal for a remote indicator

part no. 4046230

ASCO CO$_2$ Gas Sensor for Detector Type IV SP/MA

Incl. 5 m (196.85 in) sensor cable for the connection between detector and sensor

part no. 406231

ASCO
All about CO₂