



# EC21 Transmitter

**Robust, economical fixed transmitter**



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GfG's EC21 transmitter for detecting toxic gases in ambient air is an inexpensive gas detection solution for use in a wide variety of today's industrial applications.

### Simple gas detection

The EC21 is the simplest way to monitor ambient conditions. Simply attach the EC21 to a GfG controller or a PLC to continuously and efficiently monitor the concentration of hazardous toxic contaminants in the air.

The EC21 is reverse-wire protected to prevent damage due to incorrect wiring of the device. The power connector has a "quick disconnect" feature to simplify transmitter installation and service.

### Mounting position of the EC21

To determine the mounting position of the EC21 it is important to know and consider the ambient conditions. To achieve the best results, the ventilation conditions and the density of the gases need to be considered.

The EC21 must be installed so that the gas reaches the sensor even in poorly ventilated areas. If necessary, check the area with a smoke cartridge.

Other influences, such as water (rain, dripping, or condensation) and dust need to be considered, as well.

### Overview of the gases and detection ranges:

Other gases on request.

» Ammonia (NH <sub>3</sub> ) standard temperatures (-4 to +105°F)	0 to 100 ppm
» Ammonia (NH <sub>3</sub> ) standard temperatures (-4 to +105°F)	0 to 200 ppm
» Ammonia (NH <sub>3</sub> ) standard temperatures (-4 to +105°F)	0 to 250 ppm
» Ammonia (NH <sub>3</sub> ) standard temperatures (-4 to +105°F)	0 to 500 ppm
» Ammonia (NH <sub>3</sub> ) standard temperatures (-4 to +105°F)	0 to 1,000 ppm
» Ammonia (NH <sub>3</sub> ) freezer temperatures (-40 to +60°F)	0 to 100 ppm
» Ammonia (NH <sub>3</sub> ) freezer temperatures (-40 to +60°F)	0 to 200 ppm
» Ammonia (NH <sub>3</sub> ) freezer temperatures (-40 to +60°F)	0 to 250 ppm

## Technical Data: EC21

**Measuring principle:** Electrochemical (EC)

**Detection range:** Sensor dependent

**Gas supply:** Diffusion

**Response time:** Sensor dependent

**Humidity:** 15-95% r.h. non-condensing

**Output signal:** Linear 4-20 mA

**Power supply:** 10 to 30 V DC loop power

**Signal connection:** 2 shielded wire x 18 AWG <1,000 ft

### Optional accessories:

Calibration adapter

Calibration kit



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All specifications on this brochure are subject to technical changes due to further development.

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