

EC 21

Robust, Economical Transmitter



EC 21 Fixed Transmitter

- Simple to use and extremely economical
- Robust housing is corrosion resistant and dust-tight
- Linear 4 to 20 mA output signal
- 10 - 30 VDC

GfG Instrumentation

1194 Oak Valley Dr, Ste 20, Ann Arbor MI 48108 USA
(800) 959-0329 • (734) 769-0573 • www.goodforgas.com

EC 21 Transmitter

GfG's EC 21 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 EC 21 is the simplest way to monitor ambient conditions. Simply attach the EC 21 to a GfG controller or a PLC to continuously and efficiently monitor the concentration of hazardous toxic contaminants in the air.

The EC 21 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 EC 21

To determine the mounting position of the EC 21 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 EC 21 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.

| Gas | Detection Range |
|---|-----------------|
| Ammonia (NH ₃) standard temperatures (-4 to +105°F) | 0 to 100 ppm |
| Ammonia (NH ₃) standard temperatures (-4 to +105°F) | 0 to 200 ppm |
| Ammonia (NH ₃) standard temperatures (-4 to +105°F) | 0 to 250 ppm |
| Ammonia (NH ₃) standard temperatures (-4 to +105°F) | 0 to 500 ppm |
| Ammonia (NH ₃) standard temperatures (-4 to +105°F) | 0 to 1,000 ppm |
| Ammonia (NH ₃) freezer temperatures (-40 to +60°F) | 0 to 100 ppm |
| Ammonia (NH ₃) freezer temperatures (-40 to +60°F) | 0 to 200 ppm |
| Ammonia (NH ₃) freezer temperatures (-40 to +60°F) | 0 to 250 ppm |
| Ammonia (NH ₃) freezer temperatures (-40 to +60°F) | 0 to 500 ppm |
| Ammonia (NH ₃) freezer temperatures (-40 to +60°F) | 0 to 1,000 ppm |
| Carbon monoxide (CO) | 0 to 500 ppm |
| Carbon monoxide (CO) | 0 to 2,000 ppm |

Upon request, other electrochemical gases are supported.

Specifications

Detection principle

Electrochemical (EC)

Power supply

10 - 30 V DC loop power

Humidity range

15-99% r.H. non-condensing

Detection method

Diffusion

Output signal

Linear, 4–20 mA

Optional accessories

Calibration Adapter
Calibration Kit

Response time

Based on sensor

Signal connection

2 shielded wire x 18 AWG <1,000 ft

Specifications subject to change without notification

Distributed by:



GfG Instrumentation

Tel: (800) 959-0329 or (734) 769-0573

Fax: (734) 769-1888

E-mail: info@gfg-inc.com

Website: www.goodforgas.com

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