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EC28 DAR Transmitter

Display, Alarm and Relay for Safety in Ex Zones





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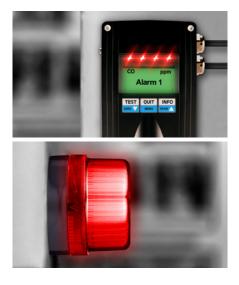
Whenever toxic gases, oxygen or hydrogen are to be monitored and a display of the current measured value as well as local and external alarms are to be provided on site, the EC28 DAR transmitter combined with GfG's proven control units is the solution of choice. The ATEX-certified design means it can be used even in potentially explosive atmospheres.

Communication and Service

Communication is carried out via a 4 to 20 mA signal. The Smart Sensor technology enables fast and uncomplicated replacement of the sensor. Adjustments can be made using the RC2 remote control (one-man calibration).

Display, Control Buttons and Alarms

The EC28 DAR transmitter features a 2.2 inch LC display and three control buttons. In normal operation, the display shows the measured value or information on faults or alarms. In addition, the operating parameters (sample gas, measuring range, limit values, etc.) can be called up via the operating keys. The EC28 DAR has highly visible red alarm LEDs, an integrated loud horn (90 dB) and an additional relay. This results in the



possibility of triggering visual and acoustic alarms locally and simultaneously externally via optional alarm transmitters such as flashing lights, horns and information signs.

Reliable Measurement & Minimal Operating Costs

The sensor and built-in temperature compensation ensure the highest measuring accuracy. The long sensor service life and low maintenance requirements ensure minimal operating costs.

(110)

Variants for Every Application

The basic version of the EC28 is sufficient for many applications. For specific requirements, the EC28 is also available in a wide variety of versions:

EC28	basic version for a wide range of electrochemical sensors
EC28 D	with display for showing the current measured values
EC28 DA	with display, bright LED warning lights and integrated alarm horn
EC28 DAR	with display, alarm horn and relay for additional external alarm devices
EC28 B	with Modbus interface
EC28 DB	with Modbus interface
EC28 DAB	display, bright LED lights and
EC28 i EC28 Di	integrated alarm horn intrinsically safe intrinsically safe and with display

Together with GfG's sophisticated controllers, all versions of the EC28 are the perfect choice for detecting a wide range of gases.

Overview of Gases:

- » Ammonia » Arsine » Bromine gas » Chlorine
 - (Cl.) » Chlorine dioxide (CIO.)
 - » Hydrogen chloride (HCI)

» Hydrogen cyanide	(HCN)
» Diborane	$(B_{2}H_{6})$
» Ethylene oxide	(C_2H_4O)
» Hydrogen fluoride	(HF)
» Carbon monoxide	(CO)

» Ozone	(O ₃)	» Hydrogen sulfide	(H ₂ S)
» Phosgene	(COCl ₂)	» Silane	(SiH ₄)
» Phosphine	(PH ₃)	» Nitrogen dioxide	(NO ₂)
» Oxygen	(O ₂)	» Nitrogen monoxide	(NO)
» Sulphur dioxide	(SO ₂)	» Hydrogen	(H ₂)

Technical Data EC28 DAR:

(NH₂)

(AsH.)

(Br.)

Measuring range: Gas supply:

Lifetime of the sensor: **Response time:**

Measuring principle: Electrochemical (EC) Sensor dependent Diffusion or gassing per calibration adapter

> Sensor dependent Sensor dependent

Temperature: Humidity: Air pressure: Output signal: **Power supply: Housing:** Protection class: IP64

-20 to +50 °C1 5 to 90 % r. h.¹ 80 to 120 kPa¹ 4-20 mA 18 to 30 V DC Plastic

Dimensions:

Weight: Approvals /

115 x 203 x 55 mm $(W \times H \times D)$ 800 q

Certifications: Markings & Type

of Protection: 🐵 II 2G Ex emb [ib] IIC T4 Gb -20 °C ≤ Ta ≤ +50 °C

> smart GasDetection Technologies



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»	Silane
»	Nitrogen dioxide
»	Nitrogen monoxide
»	Hydrogen



