

EC28 Di Transmitter

Intrinsic Safety and Display for Toxic Gases, O₂ and H₂



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Where toxic gases, oxygen or hydrogen are to be monitored in areas with a particular risk of explosion and measured values are to be read locally, the intrinsically safe EC28 Di transmitter along with GfG's control units is a reliable and cost-effective solution. The power supply and transmission of the measured values are carried out via two-wire cabling.



Intrinsically safe operation

Due to its intrinsically safe build, the EC28 Di can be used even in areas with a particularly high risk of explosion. A safety barrier (SB1 or Zener barrier; optionally available) has to be connected between the transmitter and the programmable logic controller (PLC) to convert the supply voltage to 24 V DC. This prevents the power lines from igniting within the Ex zone. The intrinsic safety of the EC28 Di is ATEX-certified and makes it suitable for applications up to Ex zone 0.

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.

Display and Control Buttons

The EC28 Di 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.

Remote Control RC2 (optional)

If the EC28 Di has to be mounted in a difficult-to-access location, the RC2 remote control facilitates servicing and adjustments (one-man adjustment). It displays the same information that is shown on the transmitter's display.

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.

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 and display
EC28 DAB	with Modbus interface, display, bright LED lights and integrated alarm horn
EC28 i	intrinsically safe
EC28 Di	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 (NH ₃)	» Hydrogen cyanide (HCN)	» Ozone (O ₃)	» Hydrogen sulfide (H ₂ S)
» Arsine (AsH ₃)	» Diborane (B ₂ H ₆)	» Phosgene (COCl ₂)	» Silane (SiH ₄)
» Bromine gas (Br ₂)	» Ethylene oxide (C ₂ H ₄ O)	» Phosphine (PH ₃)	» Nitrogen dioxide (NO ₂)
» Chlorine (Cl ₂)	» Hydrogen fluoride (HF)	» Oxygen (O ₂)	» Nitrogen monoxide (NO)
» Chlorine dioxide (ClO ₂)	» Carbon monoxide (CO)	» Sulphur dioxide (SO ₂)	» Hydrogen (H ₂)
» Hydrogen chloride (HCl)			

Technical Data EC28 Di:

Measuring principle:	Electrochemical (EC)
Measuring range:	Sensor dependent
Gas supply:	Diffusion or gassing per calibration adapter
Lifetime of the sensor:	Sensor dependent
Response time:	Sensor dependent
Temperature:	-20 to +50 °C ¹

Humidity:	5 to 90 % r. h. ¹
Air pressure:	80 to 120 kPa ¹
Output signal:	4-20 mA
Power supply:	15 to 30 V DC 21 V to 27 V DC (via Zener barrier)
Housing:	Plastic
Protection class:	IP64

Dimensions:	115 x 203 x 55 mm (W x H x D)
Weight:	800 g
Approvals / Certifications:	Markings & Type of Protection: Ⓢ II 1G Ex ia IIC T4 Ga -20 °C ≤ Ta ≤ +50 °C

¹ Sensor dependent

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