



EC28 DB Transmitter

Ex Zone Monitoring with Display and Modbus





EC28 DB Transmitter

Ex Zone Monitoring with Display and Modbus



Communication and Service

listed in the overview of gases.

Communication is carried out via RS-485 industry standard with Modbus protocol. The Smart Sensor technology enables the quick and easy replacement of the sensor.

Display and Control Buttons

The EC28 DB 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 DB 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:

basic version for a wide range of electrochemical sensors

EC28 D with display for showing the

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 deviceswith Modbus interface

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 and SI Levels:

		1001	1002
» Ammonia	(NH ₃)	2	3
» Arsine	(AsH ₃)	-	-
» Bromine gas	(Br_2)	-	-
» Chlorine	(Cl_2)	1	2
» Chlorine dioxide	(CIO_2)	2	3
» Hydrogen chloride	(HCI)	1	2
» Hydrogen cyanide	(HCN)	1	2

		1001	100
» Diborane	(B_2H_6)	1	2
Ethylene oxide	(C_2H_4O)	-	-
Hydrogen fluoride	(HF)	1	2
Carbon monoxide	(CO)	2	3
o Ozon	(O ₃)	2	3
Phosgene	$(COCl_2)$	-	-
Phosphine	(PH_3)	1	2

		1001	1002
Oxygen	(O_2)	2	3
Sulphur dioxide	(SO_2)	-	-
Hydrogen sulphide	(H_2S)	1	2
Silane	(SiH_4)	1	2
Nitrogen dioxide	(NO_2)	1	2
Nitrogen monoxide	(NO)	1	2
Hydrogen	(H_2)	-	-

Technical Data EC28 DB:

Measuring principle: Electrochemical (EC)
Gas supply: Diffusion or gassing

per calibration adapter

Temperature:

in Ex zones -20 to +50 °C outside Ex zones -25 to +50 °C Humidity: 5 to 90 % r. h.¹ Air pressure: 80 to 120 kPa¹ Output signal: RS-485
Power supply: 18 to 30 V DC
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:

Il 2G Ex eb mb [ib] IIC T4 Gb

-20 °C ≤ Ta ≤ +50 °C

Functional

Safety (SIL): DIN EN 61508-2: 2011

GfG Asia Pacific Pte. Ltd.

33 Ubi Avenue 3, #06-21B | Vertex Building, Tower B | Singapore 408868 **Phone:** +65 6 227-4346 | **E-mail:** sales@gfg-asiapac.sg





¹ see sensor specifications