

Technical specifications:

EC28 / EC28 D / EC28 DA / EC28 DAR EC28 B / EC28 DB / EC28 DAB



Measuring principle	Electrochemical (EC): for toxic gases and oxygen	
Measuring gas supply	Diffusion	
Expected average life of the sensor	sensor dependent	
Response time	sensor dependent	
Alerting	only with EC28 DA, EC28 DAR, EC28 DAB optical and acoustic (90dB @ 10cm)	
Relais output	1 changeover, potential-free (only with EC28 DAR) U _{max} =30V AC/DC, maximum short-circuit current of supply source 1A	
Power supply	Supply voltage:	18...30V DC
	Maximum supply current:	40 mA for EC28 and EC28 B 55 mA for EC28 D and EC28 DB 70 mA for EC28 DA and EC28 DAB 100 mA for EC28 DAR
	Maximum fault voltage:	250V AC bzw. 45V DC (see type plate)
	Output signal:	4...20mA (max. load 200 Ohm) or two wire Modbus (only with EC28 B, EC28 DB, EC28 DAB)
Climatic conditions	Short-term storage temperature:	-25...+60°C
	Recommended storage temperature:	0...+30°C
	Operational temperature (ambient):	-20...+50°C
	Humidity range:	5...90% r.h.
	Air pressure range:	80...120kPa
Housing	Sensoraufnehmer:	Stainless steel
	Stability:	Protect the casing against very hard impacts (> 4 J)
	Material:	anti-static plastic
	Dimensions:	115 x 203 x 55 mm (W x H x D) (H with sensor: 193 mm)
	Weight:	ca. 800 g (with display)
	Protection class:	IP64
	Cable connection:	Cable gland(s) M16x1,5 max. core cross-section 3(4) x 1,5 mm ²
	Cable type and length:	LIYC 3(4) x 0,75mm ² up to 500 m (up to 200 m with EC28 DA...) or LIYC 3(4) x 1,5 mm ² up to 1000 m
Approvals / Tests	Markings and ignition protection types:	Ⓢ II 2G Ex emb [ib] IIC T4 Gb -20°C ≤ Ta ≤ +50°C CE 0158
	EU Type Examination Certificate:	BVS 04 ATEX E 132 X
	Electromagnetic compability:	DIN EN 50270 Interference emission: Type class I Interference immunity: Type class II