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EC22 O Transmitter

Accurate oxygen measurements even in helium-containing envronments



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Monitoring oxygen is a common safety concern in many manufacturing processes. Many industries, such as semiconductor manufacturing or laboratory and research facilities, also use helium, because it is both a good electrical insulator and chemically it is extremely inert.

However, timely detection of oxygen deficiency is more difficult when a very light gas such as helium escapes, since its gas density is only 0.14 (air = 1). The EC22 O with partial pressure sensor was specially designed to monitor oxygen in environments with gases of low molecular weight.

Protection level, display and operation

The compact housing for wall mounting is protected against splash water and dust (IP54). There are two status LEDs on the front of the EC22 O. The green one indicates operational readiness and the yellow one signals faults or special states.

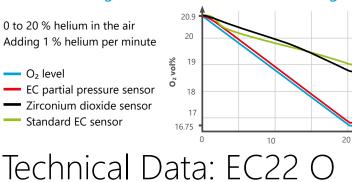


Analog version of the EC22 O with one cable entry and display

Communication

Signal transmission, for example, to GfG controllers or higher-level process control systems, uses either 4-20 mAindustry standard (alternatively also with 0.2-1 mA) or uses the digital RS-485 interface (Modbus RTU).

Sensor readings of different sensor technologies



Measuring principle: Electrochemical (EC) Detection range': 0-35% by volume Gas supply: Diffusion or gassing per calibration adapter

Expected sensor life: 5 years Response time: $t_{90} \le 5$ s Temperature: +32 to +122 °F / 0 to +50 °C Configurable measuring range



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Humidity: 0 to 90% r.h. Pressure: 70 to 125 kPa Output signal: Analog: 0.2-1 mA or 4-20 mA Digital: RS-485 Power supply: 12 to 30 V DC Housing: Plastic

min

30

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Reliable and cost-effective

Additionally, a smart electronic system controls temperature compensation and facilitates operation and maintenance. The high quality durable sensor (expected 5-year life) ensures many years of use.

The best measurement method

The EC22 O with partial pressure sensor is the only way to reliably monitor the concentration of oxygen even in environments that contain or may contain helium.

The 22 series transmitters

In addition to the highly specialized EC22 O, the 22 series offers a wide range of other high-quality transmitters for many gases and measuring ranges:

CC22	For monitoring
	combustible gases
CC22 ex	For monitoring combustible
	gases in Ex zone 2
CS22	For monitoring refrigerants
EC22	For monitoring
	toxic gases, H_2 and O_2
IR22	For monitoring
	combustible gases and CO_2
IR22 F	For monitoring CO ₂
	in cold stores
ZD22	For monitoring O ₂

The 22 series transmitters are usually available in a version with or without display, push buttons and alarm.

Protection class: IP54

Dimensions: 3.78 x 6 x 2 in / 96 x 153 x 49 mm (W x H x D) Weight: 11 to 14 oz / 310 to 390 g



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