

The Compact Warning System for Combustible Gases: Compur **Ex plus**



Compur Ex plus.

For Your Safety: A Powerful Instrument in a Small Package

The presence of combustible gases and vapors can create the hazard of an explosion. Detailed regulations give guidelines for the handling of such substances. Especially during shut downs and maintenance work, detectors for combustible gases are imperative for your safety. A remarkably powerful and handy instrument is the Compur Ex plus.

Compact, Robust, User- and Service Friendly, Small and Powerful.

Compur Ex plus is one of the smallest detectors for combustible gases. Its rugged ABS housing withstands the roughest environment. An additional elastic strap protects it against water and shock. The instrument is extremely easy to handle. The Ex plus completes Compur's range of personal gas detectors.

Fast and Versatile

Compur Ex plus measures continuously the actual concentration of combustible gases and vapors. If the alarm thresholds are exceeded, it gives visual and audible warnings within seconds.

The measured value is displayed on the easy to read LCD display in "% LEL" (lower explosion limit).

The instrument has two adjustable alarm levels. Ex plus is available with two different battery packs:

- declassification version, 4 h operation time. Equipped with the small battery pack the instrument is super lightweight
- monitoring version, 15 h operation time

The battery packs can be replaced in hazardous areas without any tools.

The Compur Ex plus is ideal for

- Chemical plants
- Refineries
- Manufacturing industries
- Wastewater treatment plants
- Gas utilities
- Landfills



The ABS-housing can take a lot of stress.

Reliable Measurement by Field-Proven Sensor Technology

The measurement is based on the principle of catalytic combustion. Compur ships the sensors pre-calibrated for the gas to be measured. The calibration to vapors can be done by a reference gas. The reference gas as well as the reference factor are mentioned on the sensor label.

Sensor replacement does not require tools. For measurements in corrosive atmosphere the sensor can be protected by filters against catalyst poisons. If the sensor is missing or defective, the instrument will give an alarm and thus contribute even more to your safety.

Simple Handling – Optimum Safety

Safety starts with easy handling. The Ex plus has an ON/OFF switch and two keys, so that without opening the instrument the following functions can be performed:

- Zero adjustment
- Gas calibration
- Adjustment of the two alarm levels
- Display bridge voltage - which is a good indication for sensor condition



Two instruments in one: Simple replacement of the battery pack converts the detector to a long-term monitoring instrument.



The Charging System: Intelligent and Comfortable

Part of the Ex plus system is either a 1- or 4-fold charging station. All charging stations check the battery capacity and automatically switch to the conservation mode which makes it impossible to over-charge a battery pack. The charging station also automatically recognizes the type of battery and charges it accordingly.

Compur Monitors Service

Together with a full range of detectors, Compur Monitors offers friendly and reliable service. Experienced technicians support you in all technical and application related questions: before and after sales. Compur Monitors also offers training seminars for users and maintenance personnel.

Compur Ex plus

- extremely lightweight and handy
- alarms within seconds
- 2 adjustable alarm thresholds
- automatic self-check
- maintenance-friendly
- calibration without opening the instrument
- 2 battery pack versions
- display of bridge voltage
- intelligent charging system

Technical Data

Ex plus

Measuring components	combustible gases and vapors
Measuring range	0-100% LEL
Alarm levels	adjustable over full range
Principle of measurement	catalytic combustion
Accuracy	1% LEL
Response time	typ. less than 10 s, at +20°C (+68°F)
Operational temperature range	typ.: -20°C to +40°C (-4°F to +104°F)
Relative humidity range	typ.: 0-95%
Power supply	standard: NiMH battery pack long term: NiCd battery pack
Operation time	standard: 4 h long term: 15 h
Alarm	audible: typ. >80 dB(A), 30 cm optical: LED
Display	LCD, 3 digits
Dimensions	with standard battery pack: 124 x 65 x 25 mm (4,9 x 2,6 x 1 in.) h x w x d
Weight	with standard battery pack: 250 g (8,8 oz) with long-term battery pack: 375 g (13,2 oz)
Outputs	earphone jack
Ex-certificate	sensor: EEx d IIC T4 instrument: EEx ib IIC T4
Protection class	IP 54

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