

# Combustible Gas Detector

## XP-311 II

**Simple, large button operation and analog gas reading at a glance make the XP-311 II the easiest detector to use on the market.**

**Based on the proven and successful previous version, the XP-311 II is designed to be more affordable.**

**It is the perfect detector to meet the safety monitoring requirements of many industries.**

### features

- ◆ Low battery, sensor & pump error alarm
- ◆ High / Low range changeover switch
- ◆ Automatic sampling by built-in pump
- ◆ Automatic zero adjustment function



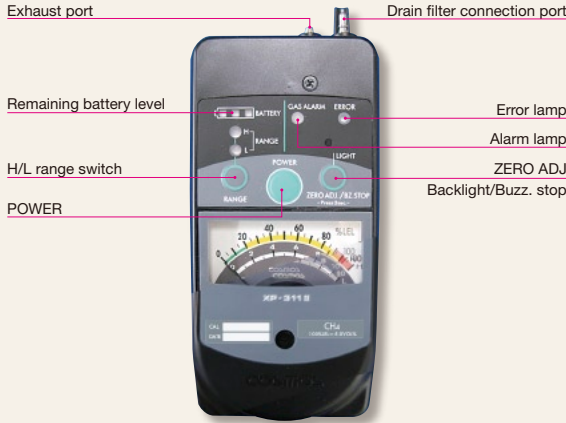
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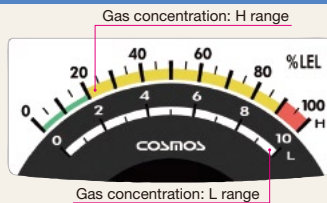
## Self-diagnostics function

- Alarms for low battery, sensor and pump error.
- Remaining battery indication function

## Nomenclature



## Meter

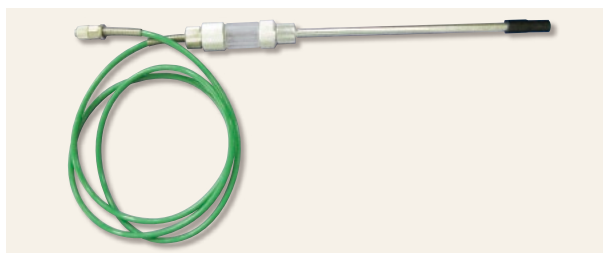


## Consumable parts

| Product        | Model                | Remarks      | Part No. |
|----------------|----------------------|--------------|----------|
| Filter Element | FE-2<br>(10 filters) | Drain Filter | 59160014 |

## Optional Items

| Product               | Model    | Remarks                          | Part No. |
|-----------------------|----------|----------------------------------|----------|
| 1-m gas sampling hose | SH301-1A | with Drain Filter, sampling pipe | 20584146 |



## Specifications

|  |   |
|--|---|
| Model                                    | XP-311 II   |
| Detectable gas                           | Combustible gas   |
| Detection principle                      | Catalytic combustion  |
| Gas sampling method                      | Automatic sampling by built-in pump   |
| Detection range                          | 0 to 100% LEL   |
| Indication accuracy *1                   | ±5% LEL of full scale value   |
| Alarm set value                          | 20% LEL   |
| Alarm method                             | Buzzer sounds and red lamp flashes at gas alarm.  |
| Power supply *2                          | Four AA alkaline batteries (LR6) or manganese batteries (R6PU or R6P)   |
| Continuous operating time *3             | AA alkaline batteries (LR6), 20°C, no alarm, backlight OFF: General: Approx. 10 hours<br>Methane: Approx. 8 hrs.  |
| Response time *4                         | 30 s max. (90% response)  |
| Operating temperature and humidity range | -20 to 50°C, 95% RH max. (with no condensation)   |
| Explosion-proof structure                | Ex ibd II BT3 (intrinsically safe and flame-proof design) *5  |
| Main functions                           | <ul style="list-style-type: none"> <li>• Zero adjustment (Automatic zero adjustment for the sensor can be performed at startup and as required.)</li> <li>• Buzzer stop (The buzzer can be stopped using a switch when it sounds.)</li> <li>• Backlight (The backlight can be turned ON using a switch.)</li> </ul> |
| Dimensions                               | Approx. W79 × H161 × D43.5 mm (excluding protrusions)   |
| Weight                                   | Approx. 480 g (including batteries)   |
| Accessories                              | Soft case, shoulder belt, AA alkaline batteries, attachment (AT-2), Drain Filter (DF-112), two replacement Filter Elements  |
| Optional items                           | 1-m gas sampling hose (with Drain Filter and sampling pipe)   |

\*1: Indication accuracy: Under identical measurement conditions.

\*2: Use only the specified batteries for the power supply.

\*3: The continuous operating time depends on such factors as the environmental conditions, operating conditions, and manufacturer of the batteries.

\*4: The response time applies for an ambient temperature of 20±2°C.

\*5: Hydrogen and acetylene are not applicable for the explosion-proof structure.



### Safety warning

- Read the operating instructions thoroughly before use. Always operate in accordance with the instructions.
- Be sure to choose the sensor designed to detect the required type of gas. Use of the wrong sensor type could cause an accident.

We are ISO 9001 certified for our design, manufacturing, sales, and service operations at our head office, branches and factories.



Registered No.: JQ 064C

We obtained the ISO 14001 International Environmental Management System certification at head office.



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The information contained is subject to change.

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