

## Dräger X-node Indoor and Outdoor Gas Monitoring

The wireless Dräger X-node is a measurement and analysis system for continuously monitoring of gas concentrations. It simultaneously measures the ambient temperature, humidity and pressure. The measured values can be transferred to a database in real time via a LoRa network and to your smartphone via Bluetooth®.

Hanging device for mounting on the ceiling or on a fence

Status LED indicates the operating mode of the unit

Robust housing, withstands even harsh conditions



Proven DrägerSensor® meets industrial standards

## Benefits

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### Flexible to use

The causes of unwanted gas concentrations can be manifold: small gas leaks, vapours, decanting processes of gases and liquids or perhaps even the CO<sub>2</sub> content of the exhaled air. This is not only about a possible health hazard. It can also be a question of avoiding damage, optimising production processes or the loss of resources. This is where the Dräger X-node can help you. With its reliable DrägerSensors, the transmitter continuously monitors the concentration of different gases and simultaneously measures temperature, relative humidity and air pressure.

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### Features of the measuring head

The measuring head of the X-node does not need a cable for either data transfer or power supply. This allows it to be positioned in a wide variety of locations. This applies to both indoor and outdoor areas, as the transmitter has a robust housing with protection class IP 65. A clearly visible all-round LED display informs you at all times about the status of the unit: operation, fault, limit value exceeded. The lithium-polymer battery supplies the X-node with power for up to 12 months and can be conveniently recharged via a micro-USB interface. With the help of a LoRa network, the X-node transmits the measured data to a corresponding backend.

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### Reliable sensor technology

The X-node detects gases using industrially proven Dräger sensors. They are characterised by a fast response time, high accuracy, great stability and long service life. They can be easily inserted into the measuring head without tools using plug-and-play. Sensors for detecting the gases Cl<sub>2</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>O<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, NO, NO<sub>2</sub>, O<sub>2</sub> and O<sub>3</sub> are currently available for the X-node - others on request.

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### Control via app

You can also access the X-node from your mobile phone via a Bluetooth connection. For example, you can carry out a configuration of limit values or an adjustment or have the current measured values displayed.

## Related Products



2-925-91

### Dräger Sampling Tubes and Systems

The Dräger Sampling Tubes and Systems are very reliable in use even with complex compounds and mixtures of substances.

## Technical Data

### Dräger X-node

|                 |  |
|-----------------|--|
| Automation      | Information via app and web applications   |
| Measuring gases | Cl <sub>2</sub> , CO, CO <sub>2</sub> , H <sub>2</sub> , H <sub>2</sub> O <sub>2</sub> , H <sub>2</sub> S, NH <sub>3</sub> , NO, NO <sub>2</sub> , O <sub>2</sub> , O <sub>3</sub> |
|                 | Further gases on request   |

### Electrical data

|                   |                         |
|-------------------|-------------------------|
| Battery type      | Lithium polymer battery |
| Battery life      | Up to 12 months         |
| Operating voltage | 3.6 V                   |
| Alarm/ Display    | 3-colour LED            |
| Interface         | BLE and LoRa            |

### Housing

|                  |                 |
|------------------|-----------------|
| Housing material | Polycarbonate   |
| Protection class | IP65            |
| Dimension        | Ca. 170 x 90 mm |
| Weight           | Ca. 300 g       |

### Environmental conditions

|             |                     |
|-------------|---------------------|
| Temperature | -20° C to +50° C    |
| Humidity    | 5% to 95% r.h.      |
| Pressure    | 700 hPa to 1300 hPa |

## Technical Data

**Approval**

CE

Elektrische SicherheitElectrical safety

## Ordering Information

|  |                  |
|--|------------------|
| <b>Dräger X-node Transmitter including DrägerSensor®</b> | <b>37 23 669</b> |
| <b>Dräger X-node Transmitter without DrägerSensor®</b>   | <b>56 01 008</b> |

| <b>Sensor</b>                                  | <b>Measuring range</b> | <b>Order number</b> |
|--|------------------------|---------------------|
| DrägerSensor® CO <sub>2</sub> IR               | 0 - 10,000 ppm         | 68 00 482           |
| DrägerSensor® Cl <sub>2</sub>                  | 0 - 100 ppm            | 68 09 665           |
| DrägerSensor® CO                               | 0 - 1,000 ppm          | 68 09 605           |
| DrägerSensor® H <sub>2</sub>                   | 0 - 3,000 ppm          | 68 09 685           |
| DrägerSensor® H <sub>2</sub> O <sub>2</sub> HC | 0 - 7,000 ppm          | 68 09 675           |
| DrägerSensor® H <sub>2</sub> O <sub>2</sub> LC | 0 - 300 ppm            | 68 09 705           |
| DrägerSensor® H <sub>2</sub> S LC              | 0 - 100 ppm            | 68 09 610           |
| DrägerSensor® NH <sub>3</sub> AL               | 0 - 100 ppm            | 68 13 735           |
| DrägerSensor® NH <sub>3</sub> FL               | 0 - 300 ppm            | 68 13 260           |
| DrägerSensor® MEC NO                           | 0 - 200 ppm            | 68 12 785           |
| DrägerSensor® NO <sub>2</sub> LC               | 0 - 20 ppm             | 68 13 205           |
| DrägerSensor® MEC O <sub>2</sub>               | 0 - 25 Vol%            | 68 12 740           |
| DrägerSensor® O <sub>3</sub>                   | 0 - 5 ppm              | 68 14 005           |

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## Notes

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