

Dräger X-node Indoor and Outdoor Gas Monitoring

The wireless Dräger X-node is a measurement and analysis system for continuously monitoring 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®.



Benefits

Flexible to use

The causes of unwanted gas concentrations can be various: small gas leaks, vapours, decanting processes of gases and liquids or perhaps even the CO₂ 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 gases and simultaneously measures temperature, relative humidity and air pressure.

Features of the measuring head

The measuring head of the X-node does not need a cable for either data transfer or power supply, allowing 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 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 software backend.

Reliable sensor technology

The X-node detects gases using industrially proven DrägerSensors characterised by a fast response time, high accuracy, great stability and long service life. The plug-and-play sensors can be easily inserted into the measuring head without tools. Sensors for detecting the gases Cl₂, CO, CO₂, H₂, H₂O₂, H₂S, NH₃, NO, NO₂, O₂ and O₃ are currently available for the X-node - others on request.

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, make 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 ₂ , CO, CO ₂ , H ₂ , H ₂ O ₂ , H ₂ S, NH ₃ , NO, NO ₂ , O ₂ , O ₃
	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

Approval

CE	Electrical safety
----	-------------------

Ordering Information

Dräger X-node Transmitter including DrägerSensor®	37 23 669	
Dräger X-node Transmitter without DrägerSensor®	56 01 008	
Sensor	Measuring range	Order number
DrägerSensor® CO ₂ IR	0 - 10,000 ppm	68 00 482
DrägerSensor® Cl ₂	0 - 100 ppm	68 09 665
DrägerSensor® CO	0 - 1,000 ppm	68 09 605
DrägerSensor® H ₂	0 - 3,000 ppm	68 09 685
DrägerSensor® H ₂ O ₂ HC	0 - 7,000 ppm	68 09 675
DrägerSensor® H ₂ O ₂ LC	0 - 300 ppm	68 09 705
DrägerSensor® H ₂ S LC	0 - 100 ppm	68 09 610
DrägerSensor® NH ₃ AL	0 - 100 ppm	68 13 735
DrägerSensor® NH ₃ FL	0 - 300 ppm	68 13 260
DrägerSensor® MEC NO	0 - 200 ppm	68 12 785
DrägerSensor® NO ₂ LC	0 - 20 ppm	68 13 205
DrägerSensor® MEC O ₂	0 - 25 Vol%	68 12 740
DrägerSensor® O ₃	0 - 5 ppm	68 14 005

Bluetooth® is a registered trademark of Bluetooth SIG, Inc.