



Dräger X-node

Gas and ambient conditions monitoring

Dräger X-node is a wireless IoT solution for process monitoring and analysis. The system solution converts reliable measurement data - gas concentration, temperature, humidity and pressure - from the X-node device into valuable information that you can access, analyse, visualise, monitor and store online via the X-node Hub.

Benefits

Flexible and easy to use

The Dräger X-node IoT solution helps you to avoid damage, optimise production processes and prevent loss of resources - regardless of whether you want to use Dräger X-node or individual components of it in the long or short term:

- Transparency: to make better, data-driven decisions
- Monitoring; with the help of information-driven attention
- Documentation: through traceability and verifiability of measured values

X-node devices do not require a cable for data transmission or power supply. A rechargeable, lithium-polymer battery powers the transmitter for up to 12 months and provides flexibility for rapid positioning in a variety of locations. And, with an IP65 rating, the X-node Device is protected against dust and high-pressure jets, so it can be used indoors and outdoors. A clearly visible, all-round LED indicator on the X-node device continuously shows its status: operation, malfunction, limit value violation.

Industry-proven sensor technology

Choose from over 15 different, reliable DrägerSensors (see below) and let the X-node device continuously monitor the concentration of a specific gas and simultaneously measure temperature, relative humidity and air pressure. DrägerSensors are renowned for their fast response time, high accuracy, great stability and long service life. They can be simply fitted into the measuring head without tools, using plug-and-play.

Control via the X-node app

You can access the X-node device via Bluetooth® using the X-node app to, for example, configure limit values, set sensors or display the current measured values. The X-node app is available free of charge in the Google Playstore and Apple App Store.

Analyse with the X-node Hub

With the X-node Hub online dashboard, you can conveniently view and manage measured values, online from anywhere. A variety of functions support you in monitoring and analysing your processes, for example:

- status overview of all your X-node devices
- detailed, individually adjustable visualisation of the measurement data
- email notifications (ad-hoc messages and interval reports)
- limit value violation list
- display device's geolocation
- tags for flexible organisation of your devices
- download measurement data

The Dräger X-node uses a LoRa network to transmit the measured data (gas concentration, ambient temperature, air pressure and humidity) encrypted to a cloud. The X-node Hub is your flexible data-management system that allows you to conveniently process and analyse the data from individual or multiple X-node devices.

Dräger X-node system



D-12669-2023

The IoT solution supports you not only in preventing damage, but also in optimising production processes or the loss of resources.

Related Products



D-13014-2018

Dräger Polytron® A500

The Dräger Polytron® A500 is a transmitter for long-term measurement of ammonia in high humidity. The heated convection cap protects the electrochemical DrägerSensor® NH₃ FL against external influences and ensures a continuous NH₃ measurement under the special conditions of air scrubbers.

Related Products

D-11803-2016



Dräger Polytron® C300

The Dräger Polytron® C300 is a sensing head specifically designed for permanently capturing the ammonia concentration in livestock environments. The integrated DrägerSensor® NH₃-AL is the only electrochemical sensor for continuous long-term ammonia measurement under the harsh conditions in animal houses.

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 X-node Hub and X-node app
Measuring gases	Oxygen and toxic gases such as Cl ₂ , CO, CO ₂ , H ₂ , H ₂ O ₂ , H ₂ S, NH ₃ , NO, NO ₂ , O ₃
Measuring ranges	See sensor data sheet
Memory function	Real time clock with backup
	Datalogger

Electrical data

Battery type	Lithium polymer battery
Battery life	Up to 12 months
Operating voltage	3.6 V
Alarm	Discrete notification via X-node Device, X-node Hub
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

Electrical Safety	CE
Radio and Telecommunications Directive	EN 300 328 V2.2.2
	EN 300 220-1 V3.1.1
	EN 300 220-2 V3.1.1
	EN 62311:2008
	EN 62368-1:2014
	EN 50270: 2015 Susceptibility type 2
	EN 301 489-1 V2.2.3
	EN 6100-6-3:2007 + A1:2011
RoHS	EN IEC 63000:2018

Ordering Information

Dräger X-node Transmitter

Dräger X-node Transmitter	56 01 008
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Dräger X-node Hub

X-node Hub Basic	37 32 056
X-node Hub Professional	37 32 057
X-node Hub Premium	37 32 058

Sensor

DrägerSensor® CO ₂	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
DrägerSensor® OV1		68 10 740
DrägerSensor® AC		68 10 595

MEC-Key Adapter

MEC-Key	68 12 695
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