# TITANUS *PRO·SENS*®
# Product information

**Fire detection**

Universal air sampling smoke detection system for a broad range of applications

VdS
G 202064

EN 54-20

WAGNER®

# TITANUS *PRO·SENS*®

## The universal air sampling smoke detection system

**TITANUS** ***PRO·SENS***® is a universal air sampling device for a broad range of applications. The high degree of modularity of the device makes it possible to achieve a cost-effective solution – customised to suit the specific needs of the customer.

An additional price advantage comes with the optional equipping of the device with a second detector module. This means that one air sampling device can monitor two separate monitored areas. Alternatively, double-knock detection can be set up for both room and equipment monitoring purposes.

**TITANUS** ***PRO·SENS***® is available with 1 to 3 alarm levels, with a network option, in the cold storage version or in the silent version, which operates at noise levels as low as 23 dB (A).

The coverage of the detector is in accordance with EN 54-20: a single **TITANUS** ***PRO·SENS***® **2** system can replace up to 64 point-type smoke detectors. Thanks to a powerful fan operating at up to 560 Pa, a pipe length of up to 560 m can be achieved fullfilling EN 54-20 Class A to C requirement.

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## Applications

The robust **TITANUS** ***PRO·SENS***® offers a comprehensive product range complete with accessories approved to EN 54-20. This allows the device to be used in areas where other smoke detectors and air sampling smoke detection systems have long reached their limits. These include:

- IT areas and clean rooms
- General warehouses, high bay storage areas and cold storage areas
- Production and assembly lines
- Wind farms
- Libraries, museums and archives
- Hospitals, hotel rooms and saunas
- Recycling areas
- Rail vehicles and tunnels

## Advantages

- Early fire detection thanks to innovative, highly sensitive HPLS light source technology
- High degree of false alarm immunity through LOGIC·*SENS* fire pattern recognition
- Up to 3 alarm thresholds for a tiered alarm concept
- A broad range of accessories, approved to EN 54-20
- High degree of modularity for a customised, cost effective solution
- Reliable project design with just 5 mouse clicks
- Time saving commissioning through Plug & Play
- Double-knock detection to enable separate room and equipment monitoring
- Available as silent option from 23 dB (A)

# TITANUS *PRO·SENS*®

## Technical data

| Basic equipment | TITANUS *PRO·SENS*® (/net) | TITANUS *PRO·SENS*® 2 (/net) |
|---|---|---|
| **Number of detector modules** | 1 | 2 |
| **max. number of sampling orifices** | 32 | 64 |
| **max. pipe length** (with max. number of sampling holes) | 300 m | 560 m |
| **Monitored area per sampling hole** | Corresponds to one point-type smoke detector in accordance with VDE 0833-2 | |
| **Monitoring of pipe systems for breakage and obstruction** | Optional adjustment for individual hole monitoring ** | |
| **Double-knock detection** | Possible using detector box | Yes (separate room and equipment protection) |
| **Sensitivity detector module DM-Tx-01** (Sampling holes in accordance with EN 54-20: Class A max. 2 x 32, Class B max. 2 x 32, Class C max. 2 x 32 ) | Info-alarm: 0.005 % LT/m*<br>Pre-alarm: 0.010 % LT/m*<br>Main alarm: 0.015 % LT/m | |
| **Sensitivity detector module DM-Tx-10** (Sampling holes in accordance with EN 54-20: Class A max. 2 x 9, Class B max. 2 x 32, Class C max. 2 x 32) | Info-alarm: 0.03 % LT/m*<br>Pre-alarm: 0.06 % LT/m*<br>Main alarm: 0.1 % LT/m | |
| **Sensitivity detector module DM-Tx-50** (Sampling holes in accordance with EN 54-20: Class A max. 2 x 4, Class B max. 2 x 12, Class C max. 2 x 32 ) | Info-alarm: 0.17 % LT/m*<br>Pre-alarm: 0.3 % LT/m*<br>Main alarm: 0.5 % LT/m | |
| **Alarms** (potential free change-over contacts) | Up to 3 alarms per detector module (info-alarm, pre-alarm and main alarm) | |
| **Fault alarms** | Common alarm<br>(1 potential free contact per detector module, NC or NO) | |
| **Alarm and fault relay power rating** | 1 A, 30 V DC, max. 24 W | |
| **Clamped connections** | max. 1.5 mm² | |
| **Displays on device** | | |
| - **Main alarm** (Types TP-1/a, TP-3, TP-4, TP-5) | 1 red alarm indicator per detector module | |
| - **Pre-alarm** (Types TP-4, TP-5) | 1 red alarm indicator per detector module* | |
| - **Info-alarm** (Type TP-5) | 1 red alarm indicator per detector module* | |
| - **Fault** | Yellow collective fault | |
| - **Operation** | Green operation display | |
| **Operating voltage** | 24 V DC (14 - 30 V DC) | |
| **Max. quiescent current** (at 24 V DC)*** | 200 (210) mA* | 220 (240) mA* |
| **Max. alarm current** (at 24 V DC)*** | 210 (220) mA* | 240 (250) mA* |
| **Starting current limited to** | 300 (390) mA | 320 (400) mA |
| **SL version:** | | |
| **Max. quiescent current** (at 24 V DC)*** | 150 (140) mA* | 180 (170) mA* |
| **Max. current consumption alarm** (at 24 V DC)*** | 160 (150) mA* | 190 (180) mA* |
| **Starting current limited to** | 300 (230) mA | 330 (260) mA |
| **Noise level** | from 23 dB (A) | |
| **Dimensions** (W x H x D) | 200 x 292 x 113 mm³ | |
| **Weight** | 1460 g | 1560 g |
| **Protection category** | IP 20 (optional IP 52) | |
| **Temperature range** | -20 °C bis + 60 °C | |
| - **Cold storage option** (no SL version) | -40 °C bis + 60 °C | |
| **Humidity** (permanent) | 10 % bis 95 % relative humidity | |
| **Event log** | Built-in, additional external data storage possible | |
| **Connection of external alarm notifications** | Parallel display optional | |
| **Network capability** | optional ethernet network version**** | |
| **Approved in accordance with EN 54-20, Classes A, B, C:** | | |
| **VdS-No.** | G 202064 | |
| **BPRI-No.** | 0786-CPD-20685 | |

* Depending on type of device ** Depending on project design *** At standard 6.9 V fan voltage **** Version TITANUS *PRO·SENS*® /net

## Other TITANUS® air sampling smoke detection systems

**TITANUS *MICRO·SENS*®**

Solution for monitoring up to 5 small to medium sized rooms, optional with localisation of the fire source e.g. hotel room, hospital, prison cell

**TITANUS *TOP·SENS*®**

Complete solution with smoke level visualisation for up to 560 m pipe length for monitoring large areas, from IT rooms up to recycling areas

**TITANUS *SUPER·SENS*®**

A High-End solution for the most demanding detection needs, a thousand times more sensitive than conventional smoke detectors, e.g. for clean rooms and IT areas with high levels of air conditioning

**TITANUS *RACK·SENS*®**

Intelligent solution for the protection of open and closed server and switch cabinets

FIRE DETECTION | Very early fire detection with **TITANUS**® provides critical additional time to assess the risk and take counter measures.

FIRE PREVENTION | Actively prevents fires. **OxyReduct**® is the innovative way in fire protection.

FIRE EXTINGUISHING | Fixed fire extinguishing systems with various gaseous extinguishing agents.

RISK MANAGEMENT | Visualisation and control of important system data combined with multiple diagnostic and messaging functions integrated into a powerful building management system.

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