WAGNER UK

- Micro-Sens®
- Pro-Sens®
- Pro-Sens *Net*®
- Top-Sens®
- Rack-Sens®

Design Guide to choosing the correct Titanus Aspirating System

WAGNER®

![WAGNER®]

Coverage - Do you require more than 500m²?

(Yes) (No) → **MICRO-SENS®**
Single Chanel Aspirating
Up to 50m Pipe/8 holes
2 Alarm Levels
Temperature 60 to -20°
Modular Sensitivity
LOGIC-*SENS*®

Variants available:
o *Bar Graph*
o *ROOM-IDENT*

Alarms - Do you need more than Fire & Fault?

(Yes) (No)

Multiple Alarms - Do you require more than 2 Alarms & Fault?

(No) (Yes)

Display - Do you require a Bar Graph?

(Yes) (No)

Cabinet - Do you require this to be installed in a 19" Rack?

(Yes) (No)

PRO-SENS®
2 Chanel Aspirating
Up to 300m Pipe/63 holes per channel
Alarm & Fault per channel
Temperature 60 to -20°
Modular Sensitivity
LOGIC-*SENS*®

Variants available:
o *Cold Store (Freezer) -40°*
o *Silent (23dB)*

RACK-SENS®
Single Chanel Aspirating
Up to 300m Pipe/63 holes
2 Alarm Levels
Temperature 60 to -20°
Modular Sensitivity
LOGIC-*SENS*®

Variants available:
o *Bar Graph Display*

Display - Do you require a Bar Graph?

(No) (Yes)

PRO-SENS *NET*®
2 Chanel Aspirating
Up to 300m Pipe/63 holes per channel
Temperature 60 to -20°
Modular Sensitivity
LOGIC-*SENS*®

Variants available:
o *Cold Store (Freezer) -40°*
o *Silent (23dB)*
o *1-3 Alarms*
o *Network & Data logger*
o *Remote Display*

TOP-SENS®
2 Chanel Aspirating
Up to 300m Pipe/63 holes per channel
1-3 Alarms
Temperature 60 to -20°
Modular Sensitivity

LOGIC-*SENS*®

Variants available:
o *Cold Store (Freezer) -40°*
o *Silent (23dB)*
o *Network & Data logger*
o *Remote Display*
o *Display Graph*

***Please note that the above are maximum distances depending on the design and PipeXpress calculations**

MICRO-SENS®

The Titanus Micro-Sens® is designed for smaller applications with harsh environments with a wide range of accessories and applications.

- ☐ Single pipe aspirating system (1 channel) with:
  - o Up to 50m of pipe length (40m straight pipe run)
  - o Coverage of up to 400m²
  - o 2 Alarm outputs
  - o Up to 8 sampling holes
  - o Modular Sensitivity
- ☐ LOGIC-SENS®
- ☐ Operating Temperatures 60° to -20°
- ☐ IP54
- ☐ PIPE-Guard patented airflow monitoring system sensing changes in the airflow from as little as =/- 10%
- ☐ Optional Cold Storage version for operating temperatures down to -40°
- ☐ Optional Bar Graph level display
- ☐ Optional ROOM-IDENT version with up to 5 individual rooms indications
- ☐ Optional Ethernet & Data logger

Versions available:
- ☐ *Standard*
- ☐ *Bar Graph*
- ☐ *ROOM-IDENT*

**Diagnostic Tool is required for commissioning and servicing*

The components

The aspirating smoke detector consists of the detection unit (1), a device base (2) and an adhesive front film sheet (3).

Part no.	Type	Device
AD-05-3500	HB-TM	Device Base TITANUS MICRO·SENS

Part no.	Type	Device
AD-05-4300	DM-TM-50	Detection Unit TITANUS MICRO·SENS - Basic Device
AD-05-4000	DM-TM-10	Detection Unit TITANUS MICRO·SENS - Basic Device
AD-05-4320	DM-TM-B-50	Detection Unit TITANUS MICRO·SENS - Bar Graph
AD-05-4020	DM-TM-B-10	Detection Unit TITANUS MICRO·SENS - Bar Graph
AD-05-4310	DM-TM-R-50	Detection Unit TITANUS MICRO·SENS - Room Ident

Part no.	Type	Device
AD-10-1400	FW-TM	Front film sheet TITANUS MICRO·SENS
AD-10-1420	FW-TM-B	Front film sheet TITANUS MICRO·SENS
AD-10-1410	FW-TM-R	Front film sheet TITANUS MICRO·SENS

FILTER

Part no.	Type	Device
AD-10-1960	LF-AD	Air Filter Assy c/w Filter Elements

DIAGNOSTICS TOOL

Part no.	Type	Device
AD-05-0566	DIAG 3/b	Diagnostic Tool

PRO-SENS®

The Titanus Pro-Sens® is designed for large applications with harsh environments with a wide range of accessories.

- ☐ Twin pipe aspirating system (2 channels) each with:
    - o Up to 300m of pipe length
    - o Coverage of up to 2000m²
    - o 1 Alarm output (Fire & Fault)
    - o Up to 63 sampling holes
    - o Modular Sensitivity
- ☐ LOGIC-SENS®
- ☐ Operating Temperatures 60° to -40° ** *Standard -20 °, Cold Store -40°*
- ☐ Standard IP20 optional IP52
- ☐ PIPE-Guard patented airflow monitoring system sensing changes in the airflow from as little as =/- 10%
- ☐ Optional silent version for operating down to 23dB *once installed with the* **AD-10-1980** *Sound Absorber/Muffler Unit on the exhaust of the unit.*

Versions available:

- ☐ *Standard*
- ☐ *Cold Store (-40° operating temperature)*
- ☐ *Silent*

The components

The aspirating smoke detector consists of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3).

STANDARD & SILENT

①

Part no.	Type	Device
AD-05-0457	TP-1/a	Basic Device Pro Sens 1 alarm per detector
AD-05-0458	TP-1-SL	Basic Device Pro Sens SILENT 1 alarm per detector

②

AD-10-5130	DM-TP-50-L	Detector Module f. ProSens & SILENT
AD-10-5100	DM-TP-10-L	Detector Module f. Pro Sens & SILENT
AD-10-5115	DM-TP-01-L	Detector Module f. Pro Sens & SILENT

③

AD-10-1035	FW-TP-1	Front Film TP-1 for 1 detector, Wagner Logo
AD-10-1037	FW-TP-2	Front Film TP-2 for 2 detectors, Wagner Logo

FREEZER

①

Part no.	Type	Device
AD-05-0467	TP-1-F/a	Basic Device Pro Sens FREEZE 1 alarm per detector

②

AD-10-5200	DM-TP-50-L-F	Detector Module f. Pro Sens FREEZE
AD-10-5190	DM-TP-10-L-F	Detector Module f. Pro Sens FREEZE
AD-10-5195	DM-TP-01-L-F	Detector Module f. Pro Sens FREEZE

③

AD-10-1035	FW-TP-1	Front Film TP-1 for 1 detector, Wagner Logo
AD-10-1037	FW-TP-2	Front Film TP-2 for 2 detectors, Wagner Logo

FILTER

AD-10-1975	LF-AD-K	Air Filter Standard Fusion

PRO-SENS *NET*® TP-4

The Titanus Pro-Sens *NET*® is designed for large applications with harsh environments with a wide range of accessories.

- ☐ Twin pipe aspirating system (2 channels) each with:
    - o Up to 300m of pipe length
    - o Coverage of up to 2000m²
    - o 2 Alarm outputs (Pre Alarm, Main Alarm & Fault)
    - o Up to 63 sampling holes
    - o Modular Sensitivity
- ☐ LOGIC-SENS®
- ☐ Operating Temperatures 60° to -40°
  *** Standard -20 °, Cold Store -40°*
- ☐ Standard IP20 optional IP52
- ☐ PIPE-Guard patented airflow monitoring system sensing changes in the airflow from as little as =/- 10%
- ☐ Optional silent version for operating down to 23dB *once installed with the **AD-10-1980** Sound Absorber/Muffler Unit on the exhaust of the unit.*
- ☐ Optional Ethernet & Data logger
- ☐ Optional Remote Display

Versions available:

- ☐ *Standard*
- ☐ *Cold Store (-40° operating temperature)*
- ☐ *Silent*

The components

The aspirating smoke detector consists of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3).

STANDARD

Part no.	Type	Device
AD-05-0462	TP-4	Basic Device Pro Sens /net 2 alarm per detector (Pre Alarm & Main Alarm)

Part no.	Type	Device
AD-10-5250	DM-TT-50-L	Detector Module TT f. Pro Sens/net & SILENT
AD-10-5210	DM-TT-10-L	Detector Module TT f. Pro Sens/net & SILENT
AD-10-5230	DM-TT-01-L	Detector Module TT f. Pro Sens/net & SILENT

Part no.	Type	Device
AD-10-1076	FW-TP-4	Front Film TP-4 for 1 detector 2 alarms Wagner Logo
AD-10-1077	FW-TP-5	Front Film TP-4 for 2 detector each 2 alarms Wagner Logo

FILTER

Part no.	Type	Device
AD-10-1975	LF-AD-K	Air Filter Standard Fusion

PRO-SENS *NET*® TP-5

The Titanus Pro-Sens *NET*® is designed for large applications with harsh environments with a wide range of accessories.

- ☐ Twin pipe aspirating system (2 channels) each with:
    - o Up to 300m of pipe length
    - o Coverage of up to 2000m²
    - o 3 Alarm outputs (Info Alarm, Pre Alarm, Main Alarm & Fault)
    - o Up to 63 sampling holes
    - o Modular Sensitivity
- ☐ LOGIC-SENS®
- ☐ Operating Temperatures 60° to -40° ** *Standard -20 °, Cold Store -40°*
- ☐ Standard IP20 optional IP52
- ☐ PIPE-Guard patented airflow monitoring system sensing changes in the airflow from as little as =/- 10%
- ☐ Optional silent version for operating down to 23dB *once installed with the **AD-10-1980** Sound Absorber/Muffler Unit on the exhaust of the unit.*
- ☐ Optional Ethernet & Data logger
- ☐ Optional Remote Display
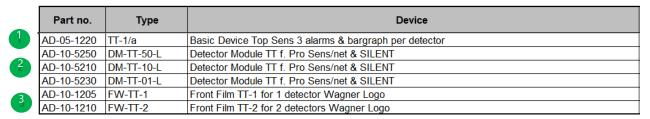
Versions available:

- ☐ *Standard*
- ☐ *Cold Store (-40° operating temperature)*
- ☐ *Silent*

The components

The aspirating smoke detector consists of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3).

STANDARD

Part no.	Type	Device
AD-05-0665	TP-5	Basic Device Pro Sens /net 3 alarm per detector (Info Alarm, Pre Alarm & main Alarm)

Part no.	Type	Device
AD-05-0665	TP-5	Basic Device Pro Sens /net 3 alarm per detector (Info Alarm, Pre Alarm & main Alarm)
AD-10-5250	DM-TT-50-L	Detector Module TT f. Pro Sens/net & SILENT
AD-10-5210	DM-TT-10-L	Detector Module TT f. Pro Sens/net & SILENT
AD-10-5230	DM-TT-01-L	Detector Module TT f. Pro Sens/net & SILENT
AD-10-1165	FW-TP7	Front Film TP-5 for 1 detector each 3 alarms Wagner Logo
AD-10-1169	FW-TP8	Front Film TP-5 for 2 detector each 3 alarms Wagner Logo

FILTER

AD-10-1975	LF-AD-K	Air Filter Standard Fusion

**SILENT & FREEZER as with PRO-SENS®

TOP-SENS®

The Titanus Pro-Sens *NET*® is designed for large applications with harsh environments with a wide range of accessories.

- ☐ Twin pipe aspirating system (2 channels) each with:
  - o Up to 300m of pipe length
  - o Coverage of up to 2000m²
  - o 3 Alarm outputs (Info Alarm, Pre Alarm, Main Alarm & Fault)
  - o Up to 63 sampling holes
  - o Modular Sensitivity
- ☐ LOGIC-SENS®
- ☐ Operating Temperatures 60° to -40° ** *Standard -20 °, Cold Store -40°*
- ☐ Standard IP20 optional IP52
- ☐ PIPE-Guard patented airflow monitoring system sensing changes in the airflow from as little as =/- 10%
- ☐ Optional silent version for operating down to 23dB *once installed with the **AD-10-1980** Sound Absorber/Muffler Unit on the exhaust of the unit.*
- ☐ Optional Ethernet & Data logger
- ☐ Optional Remote Display
- ☐ Optional Smoke Graph Display

Versions available:

- ☐ *Standard*
- ☐ *Cold Store (-40° operating temperature)*
- ☐ *Silent*

The components

The aspirating smoke detector consists of the basic device (1), one or two detector modules (2) and an adhesive front film sheet (3).

STANDARD

	Part no.	Type	Device
1	AD-05-1220	TT-1/a	Basic Device Top Sens 3 alarms & bargraph per detector
2	AD-10-5250	DM-TT-50-L	Detector Module TT f. Pro Sens/net & SILENT
2	AD-10-5210	DM-TT-10-L	Detector Module TT f. Pro Sens/net & SILENT
	AD-10-5230	DM-TT-01-L	Detector Module TT f. Pro Sens/net & SILENT
3	AD-10-1205	FW-TT-1	Front Film TT-1 for 1 detector Wagner Logo
3	AD-10-1210	FW-TT-2	Front Film TT-2 for 2 detectors Wagner Logo

RACK-SENS®

The Titanus Rack-Sens® is designed for Fire protection in its most compact form for network cabinets, switch gear and server racks. Compact and space-saving, innovative technology with very little demands for space.

Especially designed for EDP cabinets, server racks and control cabinets, TITANUS RACK·SENS® presents an extremely cost-effective fire protection solution for 482,6 mm construction (19") cabinets and racks.

.

- ☐ Single pipe aspirating system with:
    - o Up to 15m of pipe length
    - o Coverage of up to 150m²
    - o 2 Alarm outputs (Pre Alarm, Main Alarm & Fault)
    - o Up to 10 sampling holes
    - o Full compliance with sensitivity classes A, B & C
      in accordance with European standard EN54 part 20
- ☐ LOGIC-SENS®
- ☐ Operating Temperatures 0° to 80°
- ☐ Standard IP20
- ☐ Earliest possible detection by air sampling smoke detection
- ☐ High immunity to false alarms due to intelligent
- ☐ Interactive diagnostic tools allow interruption free maintenance
- ☐ Future-proof and extendable due to high degree of modularity
- ☐ Networkable via Ethernet for Visual®, snmp, Web interface, opc-server
- ☐ Ultra-flat high-tech fire protection starting with 44,45 mm construction height (1u) and 482,6 mm
- ☐ Construction (19") format
- ☐ Ultra-flat high-tech fire protection starting with

Designed for:
- ☐ *Network cabinets and*
- ☐ *Server racks*
- ☐ *Telecommunication cabinets*
- ☐ *Control switch cabinets*
- ☐ *Low voltage cabinets*

FAQ's:

1. **What's the smallest unit you have and what's the coverage?**
   The Micro-Sens is our smallest unit which can cover up to 500m² (50m) with up to 8 sampling holes. This is ideal for Lift Shafts or smaller systems. This has the option of Room Ident variant which can have up to 5 individual alarms with outputs for applications such as Holding Cells, Hotel Rooms etc.
   This is the only one of the range that you require the Diagnostics tool for any of the versions to test, commission and maintain.

2. **What is the maximum coverage for a single detector?**
   The Fusion can cover up to 1,600m² per detector and the Pro-Sens range can cover up to 3,000m² per detector. Please refer to British Standards for maximum area of coverage (2,000m²).
   Each Unit can have two detectors with independent alarm outputs.

3. **Do we need to install an filter inline with the system?**
   We recommend that a filter is installed with all systems as this will protect the detector, if maintained correctly. We have different filters depending on the microns.

4. **I need more than one Alarm & Fault signal, is this possible?**
   Yes, if you do, you need either the Pro-Sens or Top-Sens
   - ☐ *Pro-Sens Net **TP-4** - 2 Alarm levels per detector*
   - ☐ *Pro-Sens Net **TP-5** – 3 Alarm levels per detector*
   - ☐ *Top-Sens **TT-1a** – Top-Sens 3 Alarms & Bar graph per detector*

5. **This needs to be installed in an area where noise is an issue, do you have a quieter version?**
   *Yes, our normal operating range is around 46dB, you can chose the silent version which once installed with the Sound Absorber/Muffler Unit **(AD-10-1980)** on the exhaust of the unit, will reduce the sound to 23dB. This is available across the range excluding the MICRO-SENS & RACK-SENS.*

6. **How long does an alarm stay in the memory of the system?**
   *Each system normally holds any alarms in the memory which can be seen using the Diagnostics tools in conjunction with Diag 3 or Diag 4 for up to 72hrs after the event has cleared. If you need more than this, you will need a data logger which comes with the **NU-5-D** Network Card. This is only available on the Pro-Sens Net (TP-4 & TP5) & Top-Sens*

7. **Can you have a Bar Graph Display?**
   All of the ranges have the option for a Bar Graph Display. Please chose this option when designing your system.

8. **Are you able to remotely access the unit or network them together?**
   *You can add the Network card along with the Data Logger **(09-20-6445 NU-5-D)** to the Pro-Sens (TP-4 & TP-5) Net/Top-Sens. If these are already on site, they can be added retrospectively. This isn't an option for the Micro-Sens, Fusion and Pro-Sens.*

9. **What is the lowest operating temperature as I need to cover a cold store/freezer?**
   Our range operates between 40° to -20° (or -30° on the Fusion). If you require it to go in a freezer, please use the cold store/freezer variant (where applicable) as this will give you an operating temperature down to -40°. Please note that with our systems, they are design to be installed within the freezer excluding the PSU & Battery. Please make sure the correct parts are uses, i.e. the freezer detector base and the detector module along with the freezer flow reducers and clips

10. **Are all hole apertures the same and how do we design the system?**
    The hoke apertures are defined by the design using our PipeXpress design software. Hole apertures vary from 2.0mm to 7.mm depending on each system. Please note that there is different flow reducers and clips for Deep Freeze Storage Areas.

11. **Can you have manual or automatic purging on the Titanus Range?**
    Yes there is options for manual blow throughs along with several VSK Valves.

12. **I need to install a system within an ATEX rated area, do you have a solution for this?**
    Yes, you can add a detonation prevention device to cover Tye A, B or C depending on the application

13. What sensitivity of detector should I choose?

This depends on the design and category of Example:
10 aspirating holes with
each sensitivity of 3.5 % obs/m. 3.5 % obs/m : 10 = 0.35 % obs/m
Detector sensitivity must be 10 x higher than the sensitivity of an aspirating hole. Reason: Air dilution by fresh air intake of the other 9 aspirating holes.