

TITANUS PRO-SENS®

Product Presentation



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TITANUS *PRO-SENS*® 2



1 Pipe System

1 Detector module

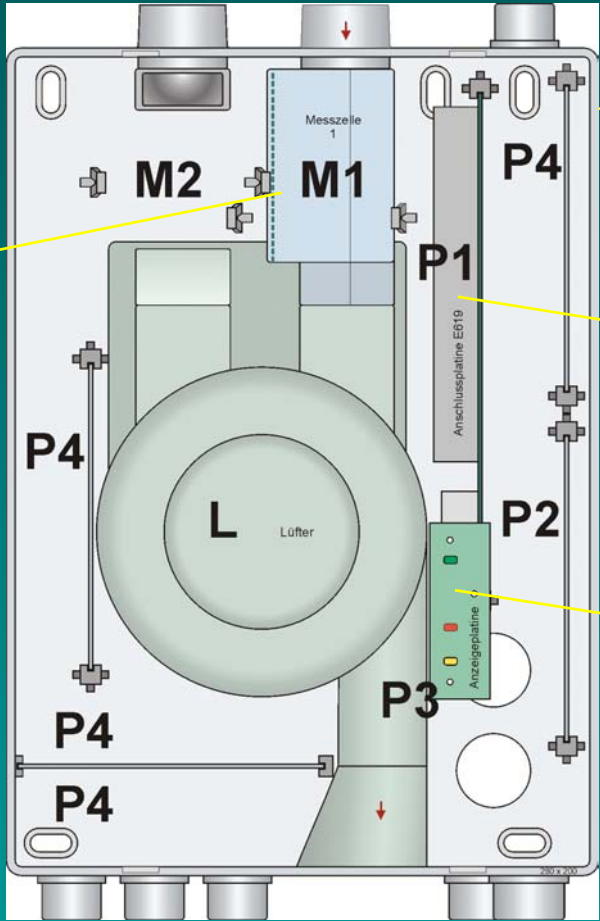
1 oder 2 Pipe systems

2 Detector Modules

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1 System - 4 Main Components

WAGNER-
Detector module
M1 + M2



Housing

Main
Board
P1

LED
Display
P3

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Typical Application Areas for TITANUS *PRO-SENS*®

- - Standard room protection
 - Enhanced application protection
 - Industrial applications (low deception factor)
- - Special detector modules for difficult applications, e.g. Sauna, Recycling, Tunnels etc.

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Response:

- 2 Detector modules with different response ranges
- 4 Response settings (yellow: Standard setting)
→ choose response setting according to application !!!

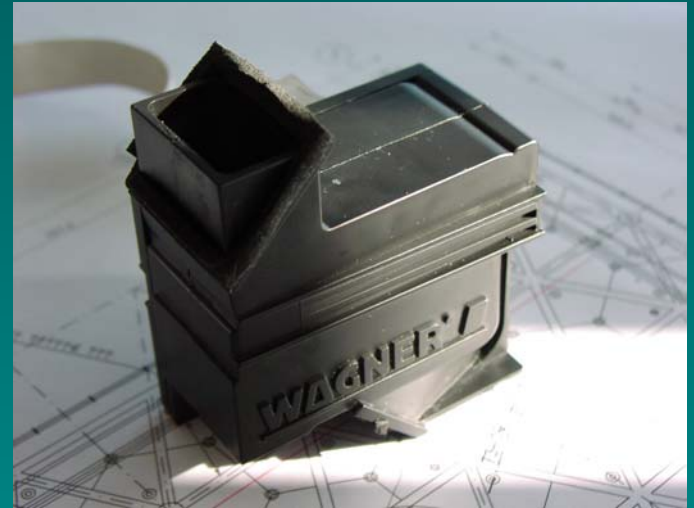
Detector module		Detector module	
Type 1		Type 2	
0,25 %/m Obscuration		0,05 %/m Obscuration	
0,50	"	0,10 %/m	"
1,00	"	0,20 %/m	"
2,00	"	0,40 %/m	"

- Coverage area per air sampling point:
up to 120 m² according to VDE

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The WAGNER – Detector module:

- Smoke detection in enclosed air stream to achieve reliable measurement
- Aerodynamic design of chamber reduces air flow resistance
- Labyrinth design prevents soiling
- Constant detection integrity between -20 and +60 deg.C



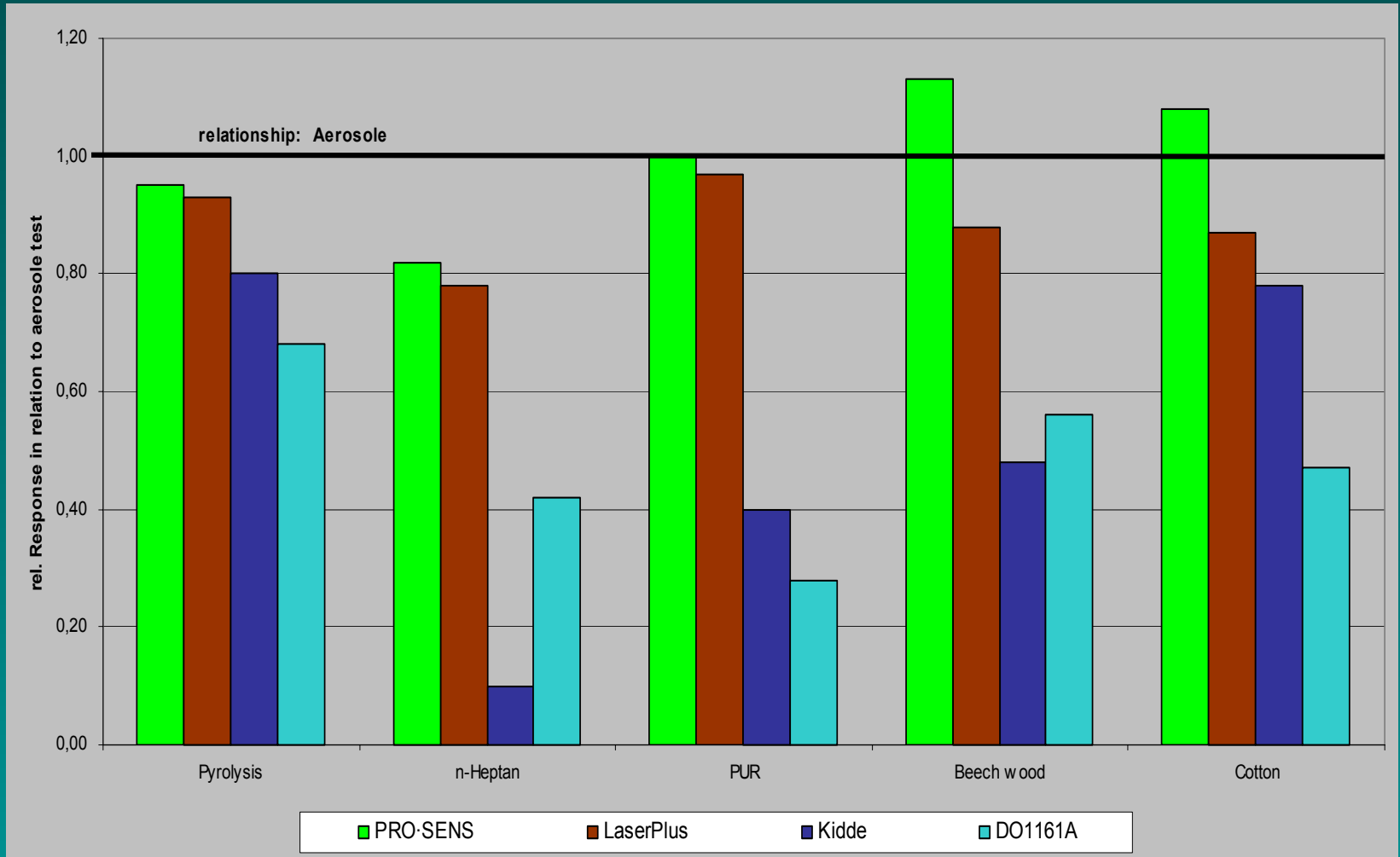
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Detection technology:

- opticle light scattering-Principle
- High-Power-Light-Source allows maximum efficiency, unmatched detection integrity
- Utilises the latest light source –Technology, low Energy and longer life cycle
- optimised Wavelength-Spectrum to achieve reliable Detection of the smallest light and dark smoke particles



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LOGIC-SENS – Intelligent Signal Analysis

- Differentiates between deceptive and real fire phenomena
- High speed signal evaluation through modern Microcontroller-Technology
- exact identification of fire characteristics using a plot speed of 1.000 points/Sec.
- Constant performance by chamber soiling and light source deviation through real time drift compensation

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Innovative Air Flow Monitoring

- Air flow monitoring of air sampling pipe network for blockage exceeds VdS/CEA requirements (50% of main air flow)
- Air flow monitoring integrity selectable up to a single hole
- Excellent Performance reliability: automated, temperature compensated Sensor signalling and pressure independent Initialising procedure
- Optimised Positioning of air flow sensor: in the Detector module
- robust Sensor technology – soil & dirt tolerant – incorporating thermal cleansing function

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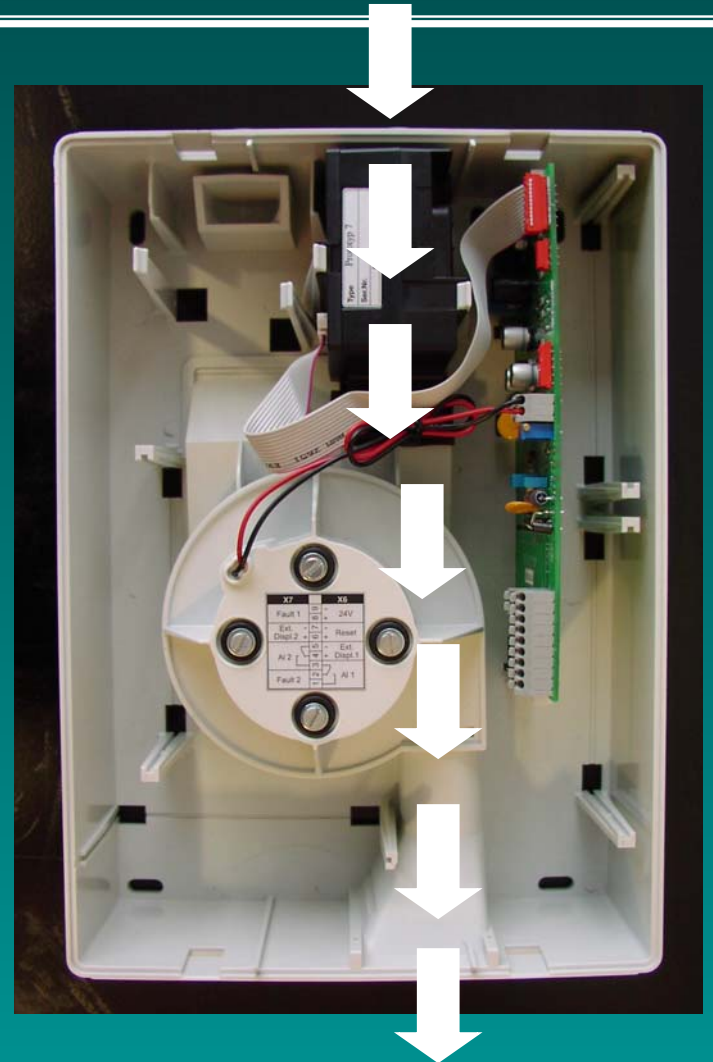
High Performance Ventilator VARIODRIVE

- WAGNER-Specially developed with high efficiency factor
- Selectable 2-speed aspiration parameter
- Operating Temperature -20°C to +60°C,
Deep Freeze version for applications of -40°C available
- Long Life Qualität through high quality components (e.g.Pabst)
- Absolute stable operation across the operating voltages of 15 ...
30 V

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Closed Air Flow Channel:

- Commissioning & Maintenance possible without closing the unit
- No contact between electronic parts and air samples
- Air flow course through the detection unit and head deigned to minimise air flow resistance and build up of dust and other soiling elements

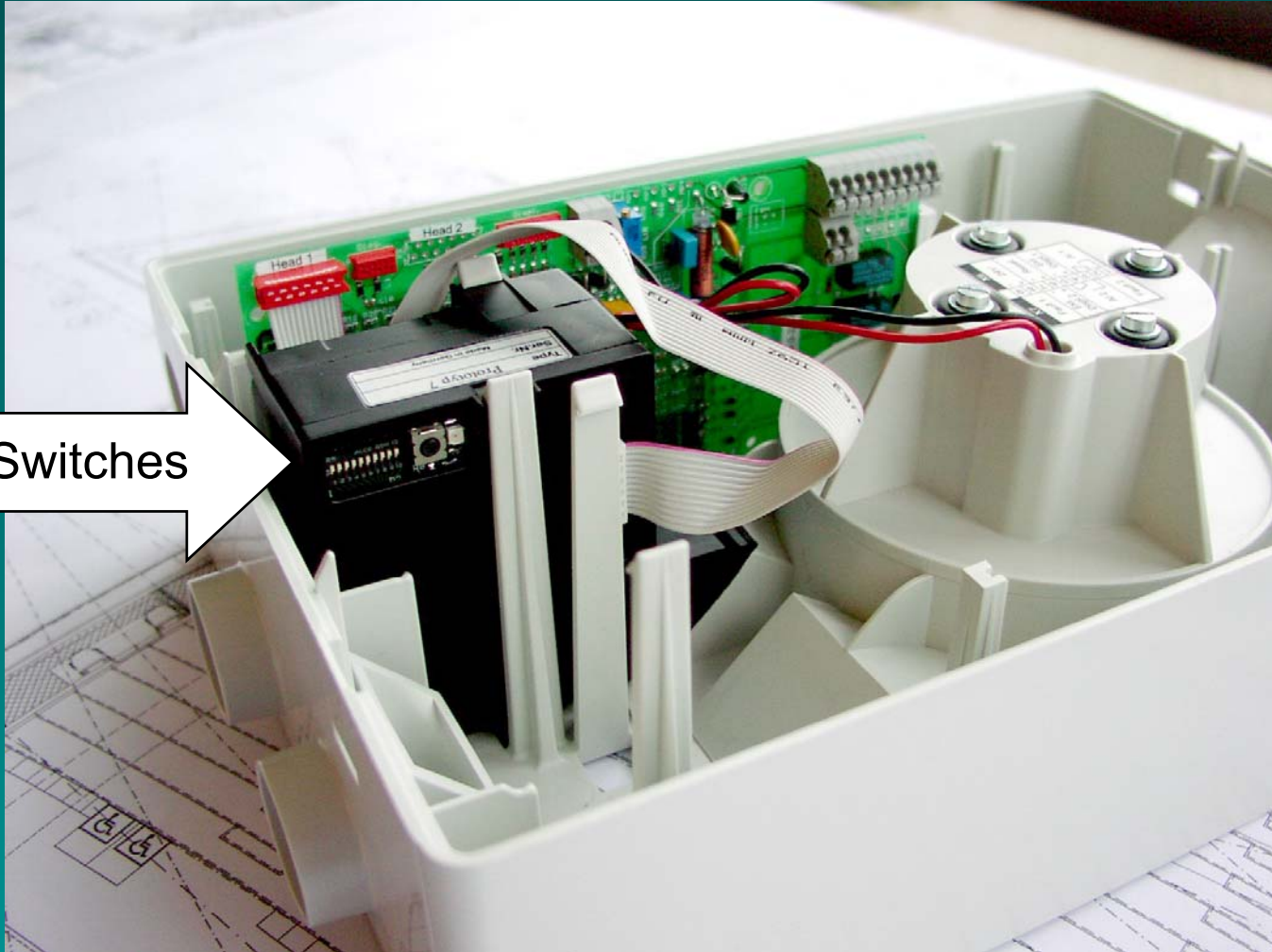


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Flexibel integration

- Fast and easy configuration through accessible DIL switches
- Alarm- und Fault signalling via dry contacts:
can be integrated with any FAP or BMS system
- Slots for input modules and reset board for Alarm and Fault loop integration available for the following systems:
Algorex, SigmaSys, LSN etc.

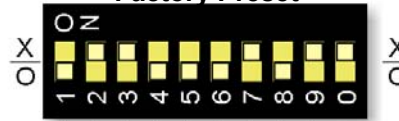
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DIL-Switches



**Standard-Einstellung:
Factory Preset**



Alarmschwelle / Alarm threshold	1 2								
0,25 %/m	<input type="radio"/>	<input type="radio"/>							
0,5 %/m	<input checked="" type="radio"/>	<input type="radio"/>							
1 %/m (Standard)	<input type="radio"/>	<input checked="" type="radio"/>							
2 %/m	<input checked="" type="radio"/>	<input checked="" type="radio"/>							
Alarmverzögerungszeit / Alarm delay	3 4								
0 s	<input type="radio"/>	<input type="radio"/>							
10 s (Standard)	<input checked="" type="radio"/>	<input type="radio"/>							
30 s	<input type="radio"/>	<input checked="" type="radio"/>							
60 s	<input checked="" type="radio"/>	<input checked="" type="radio"/>							
Luftstromschwelle . / Air flow fault threshold	5 6								
klein	<input checked="" type="radio"/>	<input type="radio"/>							
mittel	<input type="radio"/>	<input checked="" type="radio"/>							
groß (Standard)	<input type="radio"/>	<input type="radio"/>							
sehr groß	<input checked="" type="radio"/>	<input checked="" type="radio"/>							
Zeitverzögerung (LS) . . / Air flow fault delay	7 8								
30 s	<input type="radio"/>	<input checked="" type="radio"/>							
2 min (Standard)	<input checked="" type="radio"/>	<input type="radio"/>							
15 min	<input checked="" type="radio"/>	<input checked="" type="radio"/>							
60 min	<input type="radio"/>	<input type="radio"/>							
Störung . / Fault	9								
nicht speichernd . / non-latching	<input type="radio"/>								
speichernd (Standard) / latching	<input checked="" type="radio"/>								
Rauchmessung / Smoke Detection	10								
direkt . . / direct without algorithm analysis	<input type="radio"/>								
LOGICSENS / with algorithm analysis	<input checked="" type="radio"/>								

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Commissioning and Maintenance

- Automatic Initialising Routine: push button start up, IR in less than 20 min.
- All components can be assembled and disassembled without the aid of tools
- Flash diodes on the detector head make diagnosis quick and easy. Diagnostic software is also available.
- Diagnostic-Software DIAG2 provides access to extensive Service based Information.
- Diagnostic reports stored for 72 hours

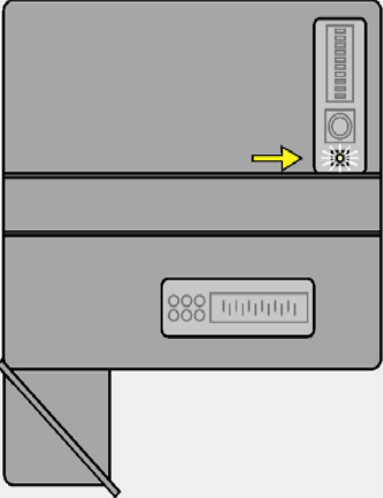

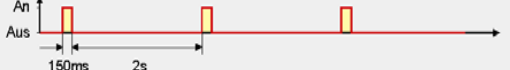


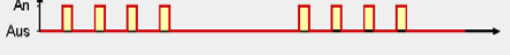
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Projekt-Nr. 990045

Fehlerdiagnose: Blinkcode LED 'Messzelle'

Diagnostic codes: Flash LED's

Chamber / Messzelle	Condition / Ereignis	LED	Flash rate / Zeitverlauf LED
	Defective unit Defekt, Gerätestörung	Lights continuous leuchtet	
	Air flow sensor needs cleaning Luftstromsensor reinigen	Flashes 1x blinkt 1x	
	Air flow value low Luftstrom zu klein	Flashes 2x blinkt 2x	
	Air flow value high Luftstrom zu groß	Flashes 3x blinkt 3x	
	Cold start routine initialised Stabilisierungsphase nach Kaltstart, Lüfter aus, Sensor-Reinigung	Flashes 4x blinkt 4x	

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Technicle Data (extract):

	Fan Speed 1	Fan Speed 2
Pipe Length max.	150 m	240 m
Air sampling points (holes)	20	20
Coverage area max.	2400 m ²	2400 m ²
Current drain at 24 V =	188 mA (Quies) 198 mA (Alarm)	264 mA (Quies) 274 mA (Alarm)

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Technicle Data (extract):

Temperature range	-20° C bis +60°C
Power supply	24V (15V bis 30V) =
Dry contact rating	30 V, 1 A, max. 24 W
Protection class / DIN IEC 34	IP 20
Noise level / EN 27779 (91)	45 dB(A), (42 dB)