

TITANUS **PRO·SENS**[®]

Air Sampling Smoke Detection System



A New Dimension in Smoke Detection

TITANUS **PRO·SENS**[®] systems have been developed from the very successful TITANUS range. **TITANUS PRO·SENS**[®] has been developed as a simple and low cost air sampling system replacing point smoke detectors where;

- access is likely to be a problem
- demanding aesthetics require no ceiling accessories
- the risk environment is too harsh

A new and high power LED light source means the system sensitivity can also be increased to protect smaller EDP applications. To maximise flexibility the system is available with either one or two detector modules.

High Sensitivity

TITANUS **PRO·SENS**[®] has excellent response behaviour to all EN54 test fires. Depending on application a high sensitivity of up to 0.05 % /m light obscuration can be set. This sensitivity level is capable of providing early warning in smaller EDP applications.

High Integrity against False Alarms with LOGIC SENS

As many protected applications are harsh environments (deep freeze storage, production areas, recycling plants, saunas etc) **TITANUS PRO·SENS**[®] can be configured to recognise and ignore unwanted alarm phenomena such as dust, exhaust gases or humidity. LOGIC·SENS provides optimal smoke detection by differentiating between real fire signals and environmental interferences.

Wide Application Range

TITANUS **PRO·SENS**[®] is suitable for many different applications. It can be used in all kinds of commercial and industrial applications. All WAGNER air sampling systems are built to operate in environments with temperature ranges between -20°C and +60°C. A special deep freeze version offers protection in applications as low as -40°C.

Operating Principle

The system draws air from the monitored area via a pipe system with defined air sampling points. The air is then passed to the detection unit where evaluation takes place. All **TITANUS PRO·SENS**[®] system functions are continuously monitored.

Importantly **TITANUS PRO·SENS**[®] can monitor every sampling hole for blockage – essential when smoke detectors are being replaced with an air sampling system.

Alarm and fault signals are potential-free contacts for connection to any fire detection system. **TITANUS PRO·SENS**[®] can also be operated as stand-alone device. For easy alarm identification repeat displays can be connected.

Fast and Easy Commissioning and Maintenance

TITANUS **PRO·SENS**[®] needs no special software tools or menu keypads for commissioning. Most set up functions are automatic. System configuration is set with a DIL switch.

For maintenance and service there is an on-board LED display, which can be further investigated with a separate diagnostic tool. The diagnostic tool guarantees a quick and inexpensive maintenance with minimal training.

Technical Data – TITANUS PRO SENS®

Detection Unit	TITANUS PRO · SENS®	TITANUS PRO · SENS® 2
operating voltage range	14 up to 30 V DC	
nominal supply voltage	24 V DC	
current consumption quiescent (at 24 V)	200 mA	220 mA
current consumption alarm (at 24 V)	210 mA	240 mA
dimensions cable screw joints inclusive (h x w x d)	292 x 200 x 113 mm	
weight	1,34 kg	1,45 kg
protection class	IP 20	
temperature range	-20 °C up to +60 °C	
-deep freeze version	-40 °C up to +60 °C	
humidity	10 up to 95 % r.f.	
displays	operating display 1 alarm display fault display	operating display 2 alarm displays fault display
number of detector modules	1	2
detector module sensitivity (at different stages)	Choice of 0,25 %/m or 0.05%/m	
Fire output (potential-free change-over-contacts)	1 alarm contact	2 alarm contacts
fault signals	collective signal for device and air flow fault (1 potential-free contact, break contact or make contact)	
load on contact/relay	1 A, 30 V DC, max. 24 W	
terminal connections	max. 1,5 mm ²	
event memory	yes	
number of remote displays	1 per detector module	
pipe system according to project planning guidelines and National Standards	2400 m ²	4800 m ²
-max. monitoring	180 m	360 m
-max. total length of pipe		
air flow monitoring in pipe system	Can be set for individual sampling hole monitoring	
- for blockage	(depending on application)	
- for rupture		

Available in Northern Ireland from
Fire Security Limited
Units 1 & 5, 23 Sunwich Street
Ravenhill Avenue
Belfast
BT6 8HR

tel 028 9073 6800
fax 028 9073 6839
email info@firesecurity.org



WAGNER UK Limited
35 Cambridge Place
Cambridge
CB2 1NS
Phone: +44 (0)870 333 6116
Telefax: +44 (0)870 333 4544
e-mail: sales@wagner-uk.com
web www.wagner-uk.com

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