Certificate of Compliance

FIRE PROTECTION EQUIPMENT

This certificate is issued for the following equipment:

TOP SENS, PRO SENS and PRO SENS net Aspirating detectors

Approval Guide Listing: Category:

Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Smoke-Actuated Very Early Warning Fire Detection (VEWFD) Systems
Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Smoke-Actuated Fire Detectors-Smoke
Electrical Signaling Alarm Signal Initiating Devices Fire Detection, Smoke-Actuated Protection of Refrigerated Spaces

Wagner Group GmbH
Schleswigstrasse 5
D30853 Langenhagen,
Germany

This certifies that the equipment described has been found to comply with the applicable requirements, as stated in the Approval Report(s), of the following FM Approval Standards and other documents:

Approval Standards		Other Standards	
Class Number	Date	Organization, Designation	Date
3230	2010		

Original Approval Job Identification:0003044596-Reissue

Approval Granted:
Reissued: 2 October 2013

Related Report: **3024162**

Subsequent Revisions: None

To verify the availability of the Approved product, please refer to www.approvalguide.com

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Member of the FM Global Group

Certificate of Compliance

TITANUS PRO-SENS®:

TP-1-U	TITANUS PRO-SENS®.
TP-1-SL-U	TITANUS PRO-SENS® with silent fan turned on.
TP-1-F-U	TITANUS PRO-SENS® with extended temperatures (-40°C - +60°C)

TP-3-U	TITANUS PRO-SENS® net.
TP-3-SL-U	TITANUS PRO-SENS® net with silent fan turned on.
TP-3-F-U	TITANUS PRO-SENS® net with extended temperatures (-40°C - +60°C).

TP-4-U	TITANUS PRO-SENS® net.
TP-4-SL-U	TITANUS PRO-SENS® net with silent fan turned on.
TP-4-F-U	TITANUS PRO-SENS® net with extended temperatures (-40°C - +60°C).

TP-5-U	TITANUS PRO-SENS® net.
TP-5-SL-U	TITANUS PRO-SENS® net with silent fan turned on.
TP-5-F-U	TITANUS PRO-SENS® net with extended temperatures (-40°C - +60°C).

TITANUS TOP-SENS®:

TT-1-U	TITANUS TOP-SENS® with bar graph feature.
TT-1-SL-U	TITANUS TOP-SENS® with bar graph and silent fan turned on.
TT-1-F-U	TITANUS TOP-SENS® with bar graph and extended temperatures (-40°C - +60°C)

TITANUS TOP-SENS® (TT-1 Series), TITANUS PRO-SENS® (TP-1 Series) and TITANUS PRO-SENS® net (TP-3, TP-4, TP-5 Series) air sampling smoke detection system for use with compatible Approved fire alarm controls having separate circuits for alarm signaling and for power. Complies with the requirements of the 2010 edition of the Approval Standard.

The software in the TITANUS TOP-SENS® processor is 0023.01.015 (Detector module 0031.09.004), the software in the TITANUS PRO-SENS® processor is 0018.11.010 and the software in the TITANUS PRO-SENS® net is 0023.0X.015 (Detector module 0031.09.004).

The TITANUS TOP-SENS® (TT-1 Series), TITANUS PRO-SENS® (TP-1 Series) and TITANUS PRO-SENS® net (TP-3, TP-4, TP-5 Series) air sampling smoke detection systems consists of a detector head (or two) mounted in an ABS-FR plastic enclosure with air sampling and other control equipment.

The TITANUS TOP-SENS® (TT-1 Series), TITANUS PRO-SENS® (TP-1 Series) and TITANUS PRO-SENS® net (TP-3, TP-4, TP-5 Series) air sampling smoke detection system could be equipped with an optional second detector module and pipe system.

The TITANUS TOP-SENS® (TT-1 Series), TITANUS PRO-SENS® (TP-1 Series) and TITANUS PRO-SENS® net (TP-3, TP-4, TP-5 Series) systems operates from 14-30Vdc (24Vdc nominal).

The alarm sensitivity of the TITANUS TOP-SENS® (TT-1 Series), TITANUS PRO-SENS® (TP-1 Series) and TITANUS PRO-SENS® net (TP-3, TP-4, TP-5 Series) systems range from 0.015%/m (0.005%/ft) to 1%/m (0.305%/ft).

The TITANUS TOP-SENS® (TT-1 Series), TITANUS PRO-SENS® (TP-1 Series) and TITANUS PRO-SENS® net (TP-3, TP-4, TP-5 Series) is also suitable for use in Refrigerated Spaces in temperatures of -40°C to 60°C (-40°F to 140°F).