

TITANUS MICRO-SENS®

TITANUS MICRO-SENS® is the affordable, compact solution for protecting smaller to medium-sized areas and equipment. Nevertheless, it offers a wide range of performance characteristics and extension options:

- A version with ROOM-IDENT allows the localization of the seat of fire with the accuracy of a point-type smoke detector. The information is displayed on the device and on the monitored rooms.
- A version with additional fan is available for particularly high safety requirements.
- A cold storage variant enables the system to be used in applications down to -40 °C .
- The optional network capability via Ethernet enables the integration of the device into existing or new hazard management systems.

Thanks to the wide range of accessories, the system can be used even under the most demanding environmental conditions. Installer-oriented tools ensure time-optimized commissioning and maintenance. TITANUS MICRO-SENS® is approved by VdS for Classes A, B and C in accordance with EN 54-20 and ISO 7240-20.



Device components



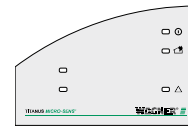
TITANUS MICRO-SENS®



Detection unit
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Device base
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Front film sheet
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Accessories



Extension modules
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Additional indicators
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Installation
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Commissioning tools
and maintenance
Page 60 ff.

Performance characteristics:

- Sensitivity from 0.1% obs/m in main alarm
- False alarm suppression LOGIC-SENS®
- PIPE-GUARD for detecting breakage or clogging of the connected pipe system
- Fast commissioning thanks to automatic initialization
- Dry alarm and fault contacts for connection to any kind of fire alarm control panel
- Optionally available with redundancy fan as an additional safety function in case of fan failure
- Prepared for connection of an Ethernet network module in the accessory housing for integration into hazard management systems
- Connection option for remote display
- Diagnostic tool for extensive service information and hints for troubleshooting

TITANUS MICRO-SENS® detection units with front film sheets and base

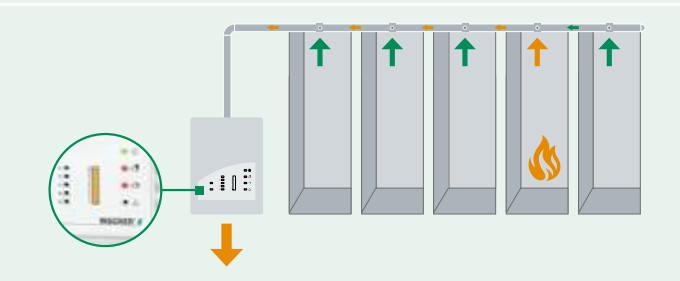
Aspirating smoke detectors for active early fire detection for room monitoring up to 400 m² and for equipment monitoring. The detectors feature visual status indicators for operation, faults and the available number of alarms.

| | | |
|-----------|-------------|-----------------|
| D | VdS | G 206004 |
| AT | PBST | FT 14/973/02/06 |
| EU | CPR | CPR-E003 |

Data sheet excerpt:

| | |
|--------------------------------|-------------------------|
| Operating voltage | 16 to 30 VDC |
| Rated voltage | 24 VDC |
| Start-up current limitation to | 150 mA |
| Number of relays | 2, expandable* |
| Max. contact load | 1 A / 30 VDC |
| Storage temperature range | -45 °C to +65 °C |
| Max. rel. humidity, operation | 95% rh (non-condensing) |
| Dimensions (W × H × D) | 140 × 200 × 65 mm |
| Dimensions with device base | 140 × 220 × 70 mm |
| Housing material | ABS plastics |
| Housing color | RAL 9018, Papyrus white |

* With relay board type RU-1 (09-20-6680) for forwarding ROOM-IDENT localization reports or RU-2 (09-20-6681) for forwarding a pre-alarm signal



- VPE** 1 unit (applies to all articles below)
- i** Network module type NU-2 (09-20-6140) required for network integration

| Project planning framework for detection units | | | | | |
|--|----------------------|---------|---------|----------------------|---------|
| Maximum sensitivity in main alarm [% obs/m] | Max. sampling points | | | Max. pipe length [m] | |
| | Class C | Class B | Class A | General | I-pipe* |
| 0.1 | 1 × 8 | 1 × 8 | 1 × 8 | 1 × 50 | 1 × 40 |
| 0.5 | 1 × 8 | 1 × 6 | 1 × 2 | 1 × 50 | 1 × 40 |

Data apply without pipe accessories; with pipe accessories, see project planning tables according to technical manual

* Air sampling pipe without branching

| Detection units | | | | | | | |
|-----------------|-------------------------------------|----------------------------------|------------------------|------------------------|----------------|----------------|---|
| | Sensitivity in main alarm [% obs/m] | Operating temperature range [°C] | Number of alarm levels | Smoke bargraph display | Article number | Type | Current draw at stand-by (alarm) @ 24 V DC [mA] |
| Standard | 0.1 | -20 to +60 | 1 | - | AD-05-4000 | DM-TM-10 | 105 (110) |
| | | | | × | AD-05-4020 | DM-TM-B-10 | 105 (140) |
| | 0.1 | -20 to +60 | 2 | - | AD-05-4521 | DM-TMV-10 | 105 (120) |
| | | | | × | AD-05-4524 | DM-TMV-B-10 | 105 (150) |
| | 0.5 | -20 to +60 | 1 | - | AD-05-4300 | DM-TM-50 | 105 (110) |
| | | | | × | AD-05-4320 | DM-TM-B-50 | 105 (140) |
| 0.5 | -20 to +60 | 2 | - | AD-05-4531 | DM-TMV-50 | 105 (140) | |
| | | | × | AD-05-4534 | DM-TMV-B-50 | 105 (150) | |
| ROOM-IDENT | 0.1 | -20 to +60 | 1 | - | AD-05-4010 | DM-TM-R-10 | 105 (185) |
| | | | | × | AD-05-4030 | DM-TM-RB-10 | 105 (215) |
| | 0.1 | -20 to +60 | 2 | - | AD-05-4522 | DM-TMV-R-10 | 105 (195) |
| | | | | × | AD-05-4525 | DM-TMV-RB-10 | 105 (225) |
| | 0.5 | -20 to +60 | 1 | - | AD-05-4310 | DM-TM-R-50 | 105 (185) |
| | | | | × | AD-05-4330 | DM-TM-RB-50 | 105 (215) |
| 0.5 | -20 to +60 | 2 | - | AD-05-4532 | DM-TMV-R-50 | 105 (195) | |
| | | | × | AD-05-4535 | DM-TMV-RB-50 | 105 (225) | |
| Cold storage | 0.1 | -40 to +60 | 1 | - | AD-05-4100 | DM-TM-10-F | 105 (110) |
| | | | | × | AD-05-4120 | DM-TM-B-10-F | 105 (140) |
| | 0.1 | -40 to +60 | 2 | - | AD-05-4529 | DM-TMV-10-F | 105 (120) |
| | | | | × | AD-05-4530 | DM-TMV-B-10-F | 105 (150) |
| | 0.5 | -40 to +60 | 1 | - | AD-05-4500 | DM-TM-50-F | 105 (110) |
| | | | | × | AD-05-4520 | DM-TM-B-50-F | 105 (140) |
| 0.5 | -40 to +60 | 2 | - | AD-05-4539 | DM-TMV-50-F | 105 (120) | |
| | | | × | AD-05-4540 | DM-TMV-B-50-F | 105 (150) | |
| Detector box* | 0.1 | -20 to +60 | 1 | - | AD-05-1500 | DM-MB-TM-10 | 30 (38) |
| | | | | × | AD-05-1510 | DM-MB-TM-B-10 | 30 (68) |
| | 0.1 | -20 to +60 | 2 | - | AD-05-1505 | DM-MB-TMV-10 | 30 (45) |
| | | | | × | AD-05-1515 | DM-MB-TMV-B-10 | 30 (75) |
| | 0.5 | -20 to +60 | 1 | - | AD-05-1520 | DM-MB-TM-50 | 30 (38) |
| | | | | × | AD-05-1530 | DM-MB-TM-B-50 | 30 (68) |
| 0.5 | -20 to +60 | 2 | - | AD-05-1525 | DM-MB-TMV-50 | 30 (45) | |
| | | | × | AD-05-1535 | DM-MB-TMV-B-50 | 30 (75) | |

* Detector box for detecting the smoke conducting branch or establishing a cross-zoning alarm verification

| Related front film sheets | | | Device base | |
|---------------------------|-----------|------------|----------------|-------|
| Article number | Type | See figure | Article number | Type |
| AD-10-1400 | FW-TM | A | AD-05-3500 | HB-TM |
| AD-10-1420 | FW-TM-B | B | | |
| AD-10-1440 | FW-TMV | C | | |
| AD-10-1460 | FW-TMV-B | D | | |
| AD-10-1400 | FW-TM | A | | |
| AD-10-1420 | FW-TM-B | B | | |
| AD-10-1440 | FW-TMV | C | | |
| AD-10-1460 | FW-TMV-B | D | | |
| AD-10-1410 | FW-TM-R | E | AD-05-3500 | HB-TM |
| AD-10-1430 | FW-TM-RB | F | | |
| AD-10-1450 | FW-TMV-R | G | | |
| AD-10-1470 | FW-TMV-RB | H | | |
| AD-10-1410 | FW-TM-R | E | | |
| AD-10-1430 | FW-TM-RB | F | | |
| AD-10-1450 | FW-TMV-R | G | | |
| AD-10-1470 | FW-TMV-RB | H | | |
| AD-10-1400 | FW-TM | A | AD-05-3500 | HB-TM |
| AD-10-1420 | FW-TM-B | B | | |
| AD-10-1440 | FW-TMV | C | | |
| AD-10-1460 | FW-TMV-B | D | | |
| AD-10-1400 | FW-TM | A | | |
| AD-10-1420 | FW-TM-B | B | | |
| AD-10-1440 | FW-TMV | C | | |
| AD-10-1460 | FW-TMV-B | D | | |
| AD-10-1400 | FW-TM | A | AD-05-3500 | HB-TM |
| AD-10-1420 | FW-TM-B | B | | |
| AD-10-1440 | FW-TMV | C | | |
| AD-10-1460 | FW-TMV-B | D | | |
| AD-10-1400 | FW-TM | A | | |
| AD-10-1420 | FW-TM-B | B | | |
| AD-10-1440 | FW-TMV | C | | |
| AD-10-1460 | FW-TMV-B | D | | |

Figure A
Art. no. AD-10-1400

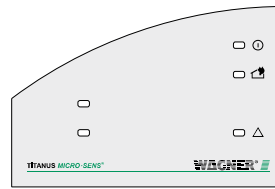


Figure E
Art. no. AD-10-1410

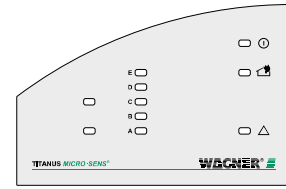


Figure B
Art. no. AD-10-1420

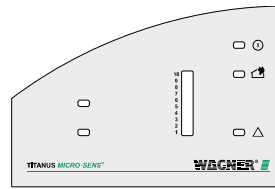


Figure F
Art. no. AD-10-1430

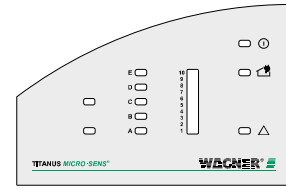


Figure C
Art. no. AD-10-1440

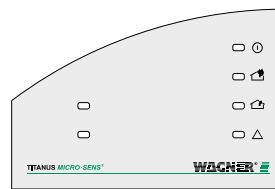


Figure G
Art. no. AD-10-1450

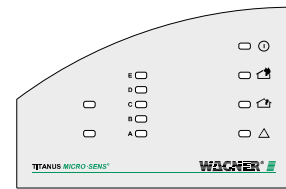


Figure D
Art. no. AD-10-1460

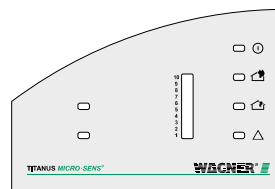


Figure H
Art. no. AD-10-1470

