

# Avantis™ Ti and Micro - Datasheet

## Avantis Ti



## Avantis Micro



The AVANTIS range consists of a single zone, multi-suppression capable miniature panel and a central 4.3" touchscreen information point.

The MICRO can be installed as a standalone suppression panel with minimal signalling and configurability. It can also be placed in a digitally addressable MODBUS network alongside a Ti to form a system that offers superior signalling, ease of use and configurability.

The MICRO has a single detection circuit and 2 suppression system outputs (both of the outputs are capable of operating 3 Stat-x units or 1 K-Series gas generator). There is an internal sounder and a single circuit powered sounder circuit. Two signalling relays capable of switching 5A at 28VDC or 100mA at 200VDC. The fault and fire outputs are limited to 1A continuous.

The MICRO consists of a single PCB mounted inside an IP65 enclosure. An onboard 'CapSense' touch technology manual release is protected and guarded by a tear off membrane which when removed gives access to a Capacitance switch. Attached to the panel fascia is a tough tactile membrane with 3 push buttons (Disable, Silence and Reset) and 4 LEDs (Fire, Fault, Healthy and Battery). When the panel fascia is removed, the entire electronics can be safely held in the palm of your hand (including batteries) with all the wiring connections easily accessible with screw terminals.

The Micro has 3 possible sources of power supply options built in as standard to meet the broad range of user requirements. These consist of:

1. 100-240VAC Fused mains,
2. 7-28VDC External power supply
3. 2 x 1.5VDC Non-rechargeable Lithium-Ion AAA batteries.

All three power supplies can be installed at once forming a system that is very resilient to power loss. Each individual supply can also be installed separately depending on user requirements. When using external power, the internal batteries are isolated from the circuit, giving a 10 day fully operational battery back-up facility in the event of external power failure.

It is important to remember that the panel can have mains electricity as source power so safety should be observed at all times when opening and working inside the panel. Traditional Manual Release CP's can be installed on the zone detection circuit should even more flexibility be required.

To provide the MICRO with greater onsite programmability the AVANTIS Ti user interface module is used. This consists of a custom injection moulded enclosure and 4.3" resistive touchscreen providing the most modern looking front end information point possible.

The Avantis Ti provides a cutting edge user interface allowing programing, monitoring and alarm warnings of fire and fault conditions. Plus service schedule alarm notification. The Ti can be connected with up to eight Avantis Micro units on a single data/power cable. There will be multiple language user options available.

With an eye on the future the MICRO already has inbuilt WIFI and Bluetooth capability which will enable localised interrogation via the upcoming Avantis APP and eventually 'over the air' update, cloud connection and remote user configurability.

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## Features

- Modular design allows up to 8 connected MICROs providing an 8-zone system. \*
- Single Detection Zone. (None powered detectors)
- Deep Sleep mode allows up to 380 days on batteries alone. From mains power fail as back up or when using battery as primary Power Source.
- Up to 6 x Stat-X and 2 x K-Series gas generators.
- On panel, capacitive manual release.
- External sounder circuit.
- Multi-supply power system, 100-240VAC, 7-28V DC and AAA batteries.
- Unique sleek aesthetics.
- Miniature, indiscernible modern design.
- Non-volatile event log.
- Configurable time release delays. \*
- External Disable or Hold OFF mode via switch input.
- IP65.
- 4.3" resistive touchscreen. \*
- Digitally addressable via MODBUS.
- Separate fire and fault relay signalling contacts.
- EXT Capacitor Discharge of 3A to 1A in 50ms.
- Multiple languages (English, French, Dutch, German and Spanish).

## Configurations

### Access Level 1: Security PIN

- Silence sounder and buzzer.

### Access Level 2:

- LED test.
- Internal buzzer test.
- Custom user Micro panel identifier programming. \*

### Access Level 3:

- Modbus address set.
- Auto Detection Disablement. \*
- Node Disablement. \*
- Fault and Fire relay disablement. \*
- Sounder disablement. \*
- MCP disablement. \*
- Release Delay. \*
- Manual Release Delay. \*
- Reset Delay. \*
- Time. \*
- Language selection. \*
- Disable short fault detection. \*

All settings can be set globally across all connected MICROs or independently.

*\* Only possible with a TI installed.*

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## Technical Specifications

| Micro unit                                |   |
|---|---|
| Overall Size                              | 120mm x 94mm x 34mm                         |
| Finish                                    | Black, textured                             |
| Mains Power Supply                        | 100-240V 0.1A 50-60Hz                       |
| Fuse                                      | 32mA Slow Blow fuse                         |
| Aux DC Vin Power Supply                   | 7-28VDC @ 1A                                |
| Standby or Primary Battery AAA            | Lithium Ion 1.5V 1200mAh x 2                |
| Current draw from batteries.              | 4mA (during non-fire condition)             |
|   | 500mA for 3s (during fire condition)        |
|   | 140uA (In battery only mode)                |
| Suppression Output (capacitive discharge) | Initial 3A output discharged to 1A in 50ms. |
| Capacitor charge time                     | 3 seconds                                   |
| Sounder output rating                     | 0.5A  |
| Relay: Fault and Fire contacts            | 28V @ 1A                                    |
| Relay: Suppression                        | 5A  |
| Detection loop current                    | 0.4mA                                       |
| Maximum communication length              | 1000meters (Unlimited with repeaters)       |
| Communication Standard                    | RS485 (refer to EIA-485 specification)      |
| Communication Protocol                    | MODBUS                                      |
| Wireless communication                    | Bluetooth and Wifi                          |
| On board MCP                              | Capacitive touch sensor                     |
| Internal Buzzer                           | 85dB  |
| External Mode selector                    | 1x NO key switch (Disable or Hold Off)      |
| Buttons                                   | 3 IP65 buttons (Reset, Silence and Mode)    |
| LEDs                                      | 4 LEDs (Fire, Fault, Health and Battery)    |
| IP rating                                 | IP65  |
| Monitoring End of line resistors          | 6K8 ohm END OF LINE monitoring              |
| Actuation per Micro                       | 2 x Gas generators                          |
|   | 6 x Stat-X units                            |

  

| TI unit                        |   |
|--------------------------------|---|
| Overall size                   | 130mm x 175mm x 29mm                              |
| Screen brightness              | 300 Cd ( Dims to 30Cd in standby Powersave mode ) |
| Power                          | 17-28VDC  |
| Buzzer                         | 85dB  |
| SD card                        | Included ( Built in )                             |
| Languages                      | English, Spanish, French, Dutch and German        |
| Fault signalling               | Generic fault signalling and in depth fault log.  |
| Max number of connected MICROs | 8   |
| Touch                          | Resistive   |

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## Connections

