Maple Armor

FireWatcher FW2601 Series
Aspirating Smoke Detector

DESCRIPTION

Features

- Optional SKUs for 1/2/4 pipes
- Independent detection chamber for each pipe
- Default pipe addressing, independent airflow sensor for each pipe
- High sensitivity laser detection technology with a wide sensitivity range
- Extra-long pipe length and abundant sampling holes
- 4-level programmable alarm level for each pipe
- Color LCD with intuitive UI.
- Micro-dust separation technology improves immunity to false alarms and extends the life of filter.
- RS485 interface and 9 relay outputs.
- Event log capacity up to 20,000.
- Modular-based design for easy maintenance and modularized replacement.
- Unique materials and mechanical design for the detection chamber to enhance pollution resistance and water condensation tolerance.
- Inverted installation supported.
- Filter replacement and maintenance reminders.
- HEPA external filter available
- Automatic compensation of sensitivity and airflow.
- GPIO function for remote reset control.

The FW2601 series aspiration smoke detector is a product with multiple unique features. This system offers abundant pipeline configurations, with each pipeline having an independent detection chamber to ensure reliable high-sensitivity detection. The default pipe addressing function and independent PT platinum airflow sensor for each pipe enhance the accuracy of detection and alarm. The advanced laser detection technology features high sensitivity, a wide sensitivity range, and good consistency in its whole lifecycle. The extra-long pipe and abundant holes along the pipe ensure extensive coverage and effective detection of the detector. Pipe addressing and independent four-level alarm for each pipe allow users to promptly identify the location of smoke occurrence and the risk level, enabling them to make optimal response decisions in a timely manner.

The FW2601 series provides an intuitive and user-friendly color LCD display, enabling efficient operation for both users and technical personnel. It utilizes micro-dust separation technology, which offers improved immunity to false alarms and longer filter lifespan. This series can record up to 20,000 events and offers multiple interfaces such as RS485 and 9 relay outputs, making it easy to integrate and interface with other systems.
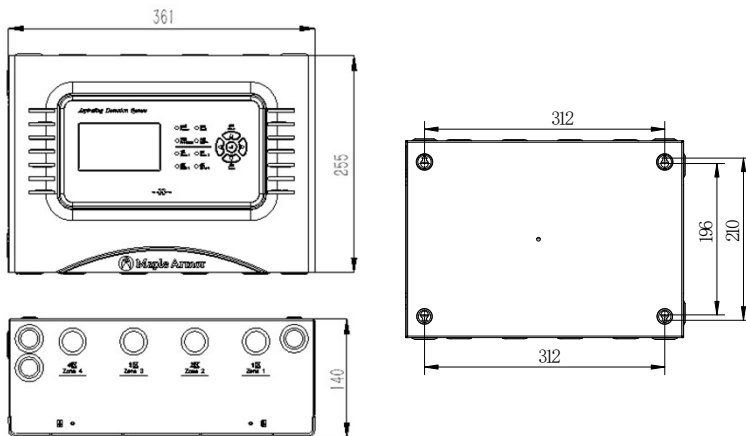
The FW2601 series features a quick-detachable and modular structure, making the installation and maintenance process more convenient. The special design of the detection chamber and mechanical parts provides excellent condensation tolerance performance, which will ensure reliable operation of the system in low-temperature and humid environments. The system also features self-learning capabilities for particle and airflow, as well as an NMB high-suction fan to meet the transmission time requirements in conditions of different pipe lengths.

The FW2601 series is an ideal choice for places with high airflow, large open spaces (with ceiling heights exceeding 12m), places with aesthetic requirements, environments with high dust levels that may cause false alarms for spot-type detectors, cleanrooms with high airflow, access- restricted areas, and other key locations with high personnel density, valuable assets, or strict requirements for continuous operation.
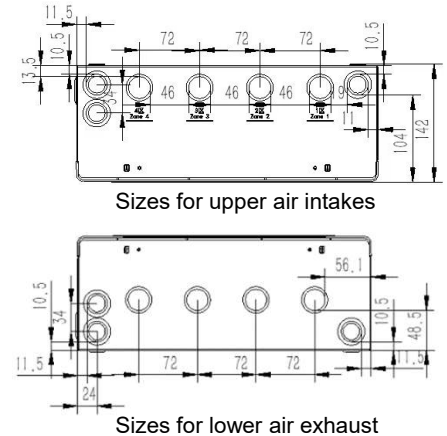
FM APPROVED

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INSTALLATION

Physical Dimensions

Spacing and Margins of Holes

Sizes for upper air intakes

Sizes for lower air exhaust

The detector is fixed on the wall using expansion bolts (using M4 screws). The spacing between the mounting holes is 312mm. The **sampling pipe*** that is compatible with the detector shall have an outer diameter of 25mm and an inner diameter generally of 21mm. Other external dimensions and detailed installation dimensions are shown in the diagrams.

***Sampling Pipe** and its connecting accessories are usually universal PVC plastic products, which are readily available in the local market. If assistance is needed to procure pipes, please contact your local sales representative at Maple Armor.

SPECIFICATION

Environmental	
Operating Temperature	-10～+55℃
Storage Temperature	-20～+65℃
Relative Humidity	≤95% (no condensation)
Electrical	
Operating Voltage	DC18V～30V
Monitor Current	900mA（@100 pipe length）
Alarm Current	950mA（@100 pipe length）
LED (FW2601-P4)	Power supply: green; Fault: yellow; Early warning: red; Fire alarm: red; Total of 4 partitions: green/red
LED (FW2601-P1)	Power supply: green; Fault: yellow; Early warning: red; Fire alarm: red; Total of 1 partition: green/red
LED (FW2601-P2)	Power supply: green; Fault: yellow; Early warning: red; Fire alarm: red; Total of 2 partitions: green/red
Signaling	
Protocol	RS485 Modbus
Range of Address	Max. 252
Transmission Distance	1300m
Mechanical	
Exterior	Gray PLA9023
shell material	Metal/Plastic
product quality	4.75kg
Dimensions	361×255×140mm
Detection	
Max protection area	4880m² in straight pipes
Sensitivity range	0.001～20% obs/m
Relay output	9 configurable relays, capacity 2A
Max sampling holes	144 in straight pipes
Max dist.of remote hole	122m in straight pipes
Approvals	
FM	Standard FM3230 Smoke Actuated Detectors for Automatic Alarm Signaling
CCC	Standard GB15631-2008 Specialty Fire Detectors

ORDERING INFORMATION

MODEL	DESCRIPTION	UOM	MPQ	MOQ	COO
FW2601-P1	FireWatcher Aspirating Smoke Detector 1 pipe	EA.	1	1	China
FW2601-P2	FireWatcher Aspirating Smoke Detector 2 pipe	EA.	1	1	China
FW2601-P4	FireWatcher Aspirating Smoke Detector 4 pipe	EA.	1	1	China
FW2405	ASD-Monitor Networking Software, compatible with FW2352	EA.	1	1	China
FW2406	ASD-Calculator Sampling Pipe Design Software	EA.	1	1	China
FW2601-P4-02	Coarse Filter	EA.	1	1	China
FW2601-P4-03	Fine Filter	EA.	1	1	China
FW2601-P4-T3	RS485 Networking Card, Compatible with FW2405	EA.	1	1	China
FW2601-HEPA	HEPA filter cotton, optional external filter	EA.	1	1	China

FW2601