



Duct Smoke Detector

FW562

DESCRIPTION

The FW562-A/B/C and FW562C-A/B/C models are smart ventilation duct detectors designed for use with model FW511A detector heads. FW562-A/B/C are UL-listed devices according to UL 268A, and FW562C-A/B/C are ULC listed according to ULC- S529 for fire protection systems. Equipped with a photoelectric smoke detector, the units will signal the presence of a dangerous amount of combustion product in the ventilation system. They are compatible with Maple Armor's FW series control panels model FW105, FW106, FW106C, FW106S, FW106SC.

ATTENTION

Products must be installed in accordance with NFPA 72, CAN/ULC-S524, and/or Canadian Electrical Code depending on the country of installation. Check information of equipment used in the system by other manufacturers for any guidelines or restrictions.

The detector should never be installed in the following locations: areas with excessive exhaust fumes, kitchen areas, near fireplaces, furnace rooms, etc. Smoke detectors are not to be used with detector guards unless the combination has been evaluated and found suitable for that purpose.

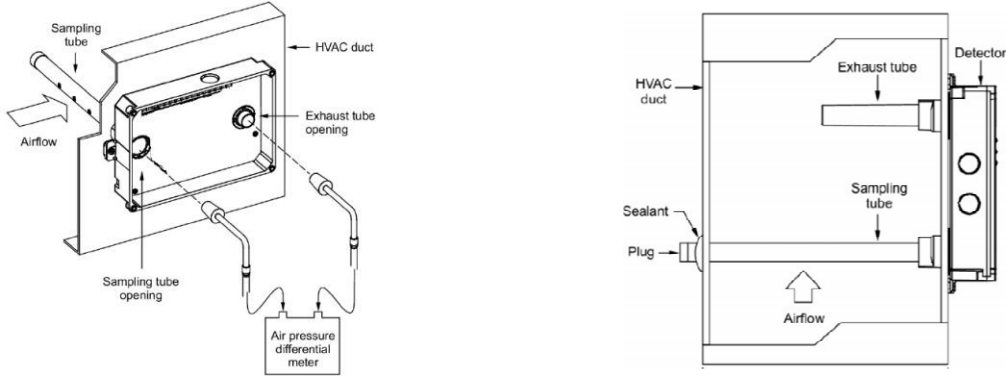
NOTE

Do not paint this unit.

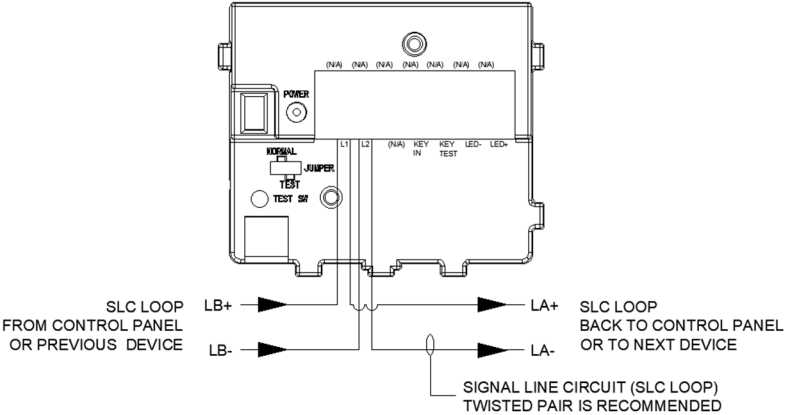
Any material extrapolated from this document or from Maple Armor's instructions or other documents describing the product for use in promotional or advertising claims, or for any other use, including a description of the product's application, operation, installation, and testing is the sole responsibility of the user. Maple Armor will not assume any liability for such use. In no case will Maple Armor's liability exceed the purchase price paid for a product.

INSTALLATION AND WIRING

Mount the duct smoke detector on the HVAC duct and secure it using four sheet metal screws provided.



*See the installation manual for more installation guidelines and duct detector configuration.



SPECIFICATIONS

| | |
|-----------------------|--|
| Nominal Voltage | 24 VDC |
| SLC Voltage Range | 17.6 to 28V dc |
| Standby Current | 0.35 mA |
| Alarm Current | 2 mA |
| Operating Temperature | 32°F to 100°F (0°C to 38°C) |
| Operating Humidity | 0% to 93% RH |
| Dimension | 329(W) x 114(H) x 51(D) mm (13 1/8 x 4 x 2) in. |
| Weight (with base) | 4.6 oz (132g) |
| Mounting location | Side and top |

DUCT DETECTOR OPTIONS

a. Applicable to ULC listing required area

| Model | Air Velocity | Pressure Differential | Contents |
|----------|--|--|---|
| FW562C-A | 2000 to 4000 (ft/min) 10.2 to 20.3 (m/s) | 0.36 to 1.53 iwg (inches of water) 90 to 380 Pa (Pascals) | <ul style="list-style-type: none"> • Duct detector assembly • One exhaust tube • One detector headcover • One $\phi 5$ * 2-hole sampling tube (order separately) |
| FW562C-B | 700 to 2000 (ft/min) 3.6 to 10.2 (m/s) | 0.04 to 0.4 iwg (inches of water) 9 to 100 Pa (Pascals) | <ul style="list-style-type: none"> • Duct detector assembly • One exhaust tube • One detector headcover • One $\phi 5$ * 4-hole sampling tube (order separately) |
| FW562C-C | 300 to 700 (ft/min) 1.5 to 3.6 (m/s) | 0.004 to 0.06 iwg (inches of water) 1 to 15 Pa (Pascals) | <ul style="list-style-type: none"> • Duct detector assembly • One exhaust tube • One $\phi 5$ * 4-hole sampling tube (order separately) |

b. Applicable to UL listing required area

| Model | Air Velocity | | Contents |
|----------|--|--|---|
| FW562-A | 2000 to 4000 (ft/min) 10.2 to 20.3 (m/s) | 0.32 to 1.41 iwg (inches of water) 80 to 350 Pa (Pascals) | <ul style="list-style-type: none"> • Duct detector assembly • One exhaust tube • One detector headcover • One $\phi 5$ * 4-hole sampling tube (order separately) |
| FW562-B | 1000 to 2000 (ft/min) 5.1 to 10.2 (m/s) | 0.1 to 0.4 iwg (inches of water) 25 to 100 Pa (Pascals) | <ul style="list-style-type: none"> • Duct detector assembly • One exhaust tube • One $\phi 5$ * 4-hole sampling tube (order separately) |
| FW562C-C | 300 to 1000 (ft/min) 1.5 to 5.2 (m/s) | 0.004 to 0.14 iwg (inches of water) 1 to 35 Pa (Pascals) | <ul style="list-style-type: none"> • Duct detector assembly • One exhaust tube • One detector head baffle • One $\phi 5$ * 2-hole sampling tube (order separately) |

CATALOG NUMBER TO ORDER

| Model | Description |
|-------------|-----------------------------------|
| FW562 | Duct Smoke Detector, UL |
| FW562C | Duct Smoke Detector, ULC |
| FW561-ST-12 | 12 inch's Air Sampling Inlet Tube |
| FW561-ST-18 | 18 inch's Air Sampling Inlet Tube |
| FW561-ST-24 | 24 inch's Air Sampling Inlet Tube |
| FW561-ST-36 | 36 inch's Air Sampling Inlet Tube |
| FW561-ST-42 | 42 inch's Air Sampling Inlet Tube |