Macurco inc.
GAS DETECTION

Air Quality Controllers (AQC)

Restrooms • Lounges • Bowling Alleys • Conference Rooms **i** Schools

Smoking Rooms **i** Restaurants **i** Loading Docks **i** Fire Stations

AQC-12 120 VAC

AQC-21 12-24 VAC or VDC

- Detects cigarette smoke, VOCs and many other gases.
- UPON ALARM
    AQC closes SPDT relay to a control panel or other device.
- Easy installation, unit mounts flush in a standard 4 x 4 electrical box.
- No maintenance required, sensors have a 7 to 10 year life expectancy.
- Detectors have customer adjustable settings for:
    a) sensitivity of the unit to smoke and gases.
    b) Time of activation of relay closure.
- LED lights show the status of the detector.
- The AQC-12 and AQC-21 both have supervised sensors and will go into alarm condition if there is an internal failure of the unit.
- Automatic operation; units automatically reset after alarm or power outage.
- General purpose detector for cigarette smoke, diesel fumes, VOCs and other hydrocarbons. Primary use is detection of cigarette smoke in non-smoking areas.
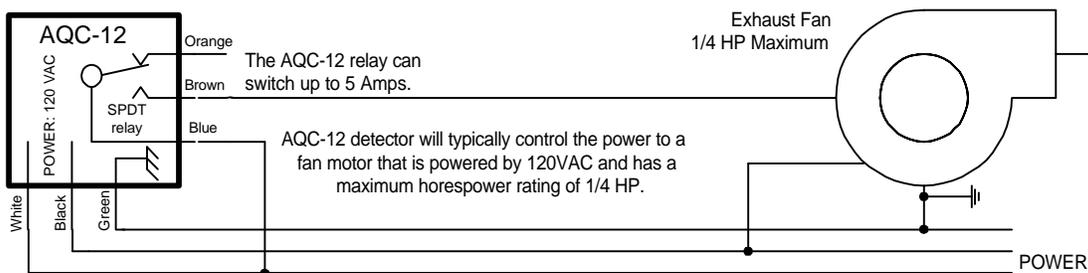
Note: These units are not suitable as smoke alarms, fire alarms or carbon monoxide detectors. For detection of a specific gas please consult Macurco for the proper detector.

- **Recommended Coverage**: 900 sq. feet.   • **All units are 100% Gas Tested**
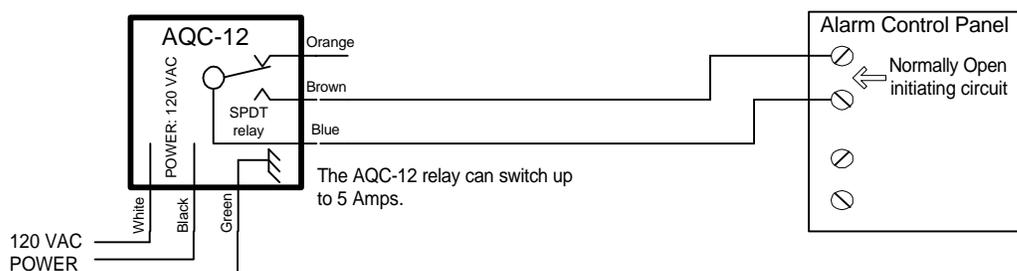   **i** **Solid-State Sensor**: Maintenance Free

TYPICAL WIRING DIAGRAMS

The AQC-12 provides Automatic Fan Control

AQC-12 · POWER: 120 VAC · Orange · Brown · SPDT relay · Blue · White · Black · Green

The AQC-12 relay can switch up to 5 Amps.

AQC-12 detector will typically control the power to a fan motor that is powered by 120VAC and has a maximum horespower rating of 1/4 HP.

Exhaust Fan 1/4 HP Maximum
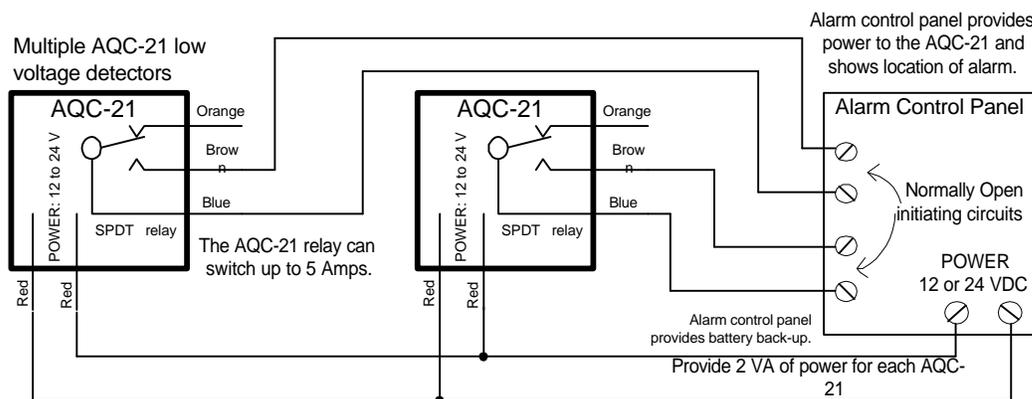
POWER

The AQC-12 will typically be connected to a standard Class A or B alarm control panel, providing a relay closure upon alarm. This system uses the alarm control panel to identify the location of the alarm.

AQC-12 · POWER: 120 VAC · Orange · Brown · SPDT relay · Blue · White · Black · Green

120 VAC POWER

The AQC-12 relay can switch up to 5 Amps.

Alarm Control Panel

Normally Open initiating circuit

Multiple AQC-21 low voltage detectors

Alarm control panel provides power to the AQC-21 and shows location of alarm.

AQC-21 · POWER: 12 to 24 V · Orange · Brown · Blue · SPDT relay · Red · Red

The AQC-21 relay can switch up to 5 Amps.

AQC-21 · POWER: 12 to 24 V · Orange · Brown · Blue · SPDT relay · Red · Red

Alarm Control Panel

Normally Open initiating circuits

POWER 12 or 24 VDC

Alarm control panel provides battery back-up.

Provide 2 VA of power for each AQC-21

Specifications

	AQC-12	AQC-21
Power:	120 VAC	12-24 VAC or VDC
Size:	4.5 x 4.5 x 1.75 inches	4.5 x 4.5 x 1.75 inches
Mounting Box:	standard 4 x 4 elec. box	standard 4 x 4 elec. box
Relay:	5 amp SPDT @ 120VAC	5 amp SPDT @ 120VAC
Sensitivity:	adjustible	adjustible
Time Adjustment:	1 to 10 minutes	1 to 10 minutes
Maintenance:	none required	none required
Color:	white	white
Shipping Weight:	one pound	one pound