



DVP-120 DETECTION AND VENTILATION CONTROL PANEL

Building codes require that enclosed parking garages, warehouses and vehicle maintenance facilities either have exhaust fans operate continuously, or have automatic Carbon Monoxide (CO) detection and exhaust fan control systems. The difference in fan operating time is 24 hours a day versus one to two hours. Energy savings are significant.

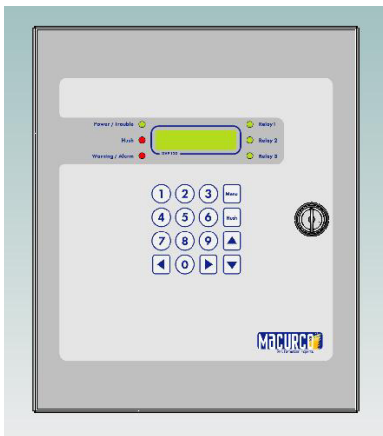
The DVP-120 exhaust fan controller which, in conjunction with CM-2B or CM-3 Carbon Monoxide detectors or ND-2 Nitrogen Dioxide detectors or GT-11A Combustible detectors, provide automatic controls to ensure a safe environment in parking garages or maintenance facilities. The DVP-120 can control up to twelve CO, NO or EX sensors in any combination.

The DVP-120 system is designed to meet all known specifications for safety in enclosed parking garages, including the Uniform Building Code and OSHA 50 ppm CO requirements.

- ◆ MONEY saving devices, both in energy costs and extended fan life.
- ◆ Clearly labelled Modular Connectors for easy hook up.
- ◆ Conduit holes already provided.
- ◆ Flexible configuration to meet any application.
- ◆ Each DVP-120 can control up to three zones.
- ◆ Fan settings are end user adjustable, to meet any specification.
- ◆ Driver circuits provided for horn and strobe alarm signals.
- ◆ Bright LEDs indicate system status including alarm and relay status.
- ◆ All Sensors are supervised; panel LCD indicates sensor status and individual gas levels.
- ◆ Lockable Nema 1 type enclosure.
- ◆ No regular maintenance necessary.
- ◆ Simple installation and operation.

SPECIFICATIONS

SIZE: INCHES	10 x 12 x 2
WEIGHT: POUNDS	6 ½
POWER INPUT 100 – 240 VAC	1 amps
OUTPUT CONTROL RELAYS	3
RELAY RATING: AMPS	16
RELAY RATING: VOLTS	240
CO TRANSDUCER RANGE: PPM	0 – 250
NO TRANSDUCER RANGE: PPM	0 – 9.0
EX TRANSDUCER RANGE: PPM	0 – 10,000
RELAY TURN ON DELAY:MINUTES	0 – 15
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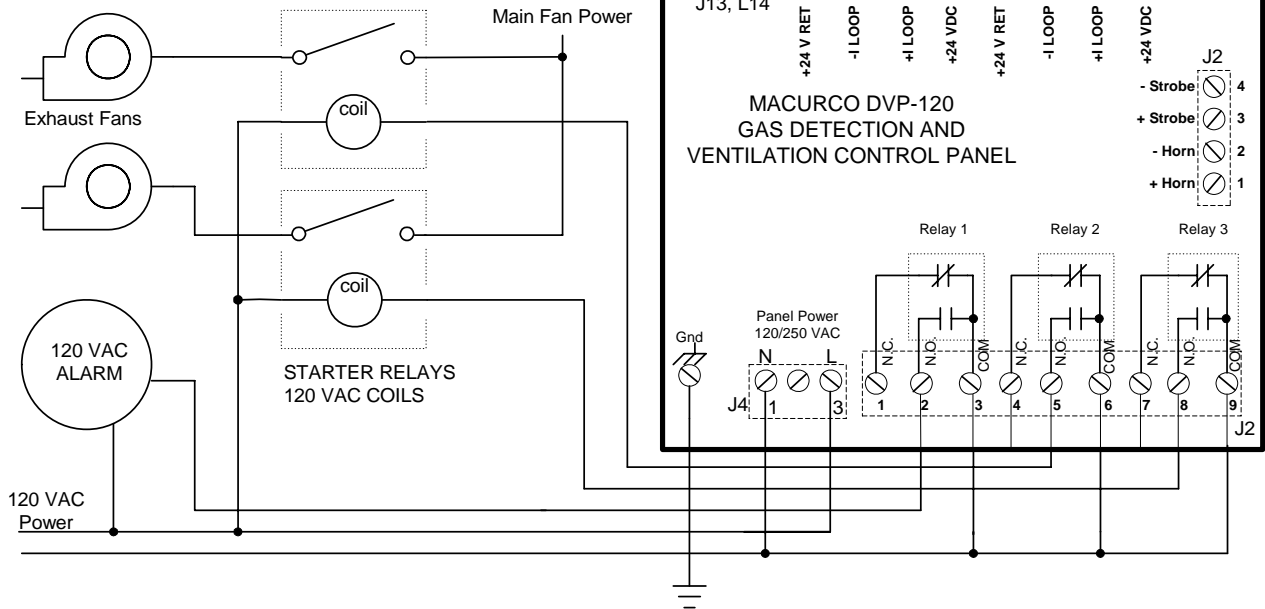
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ENGINEER AND ARCHITECT SPECIFICATIONS

Gas detection and exhaust fan control is provided by a Macurco DVP-120 system. This System will use CM-2B or CM-3 Carbon Monoxide (CO) to current transducers, ND-2 Nitrogen Dioxide to current transducers or GT-11A Combustible Gas to current transducers. Each transducer will measure the level of the target gas and provide this information to the DVP-120 over a 4-to-20 mA current loop. The Transducers are mounted in a standard 6" x 6" electrical enclosure, and operate on low voltage (24 VDC).

All power and signal connections for the transducers are provided from the DVP-120 control panel, via unshielded four conductor cable. The DVP-120 control panel provides three relays which can be used for ventilation fan control or alarm signaling. These relays (SPDT - Form C) are for pilot duty only, capable of switching 10 amp loads up to 240 VAC.



NOTE:

1. Power connections at the sensor are non-polarized.
2. DVP-120 connections are representative of J7, J8, J10, J11, J13 and J14.

NOTE

1. Typical coverage for a CO sensor is 5000 sq. ft., 900 sq. ft. for combustible gasses. Extra sensors may be needed near areas where people work, such as toll booths.
2. Macurco provides only the control panels and sensors. Fans, relays, and other devices are provided by the contractor.
3. See the appropriate building code for the size of fans and air changes per unit of time.

