

# ***MACURCO GAS DETECTORS***

## **DMK-1 INSTALLATION AND OPERATION INSTRUCTIONS [WWW.MACURCO.COM](http://WWW.MACURCO.COM)**

### **GENERAL INFORMATION**

The DMK-1 is a duct mount enclosure that provides the means to duct mount all of Macurco's standard 4 x 4 mount gas detectors. By duct mounting a gas detector, the unit is able to monitor gas concentrations in ventilation ducts.

### **THE FOLLOWING PARTS ARE INCLUDED WITH THE DMK-1:**

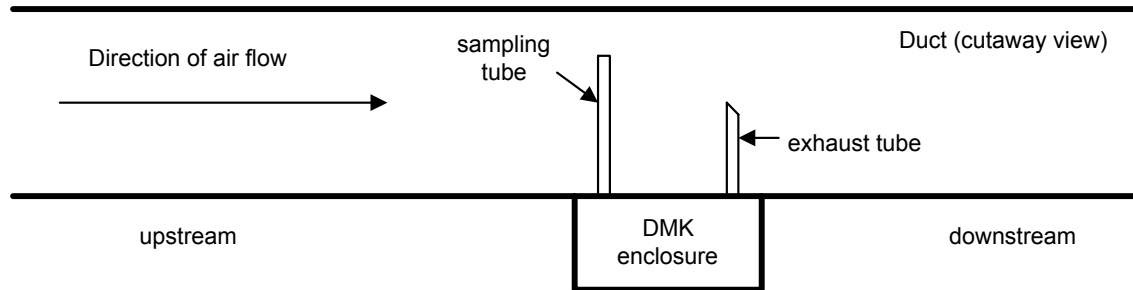
Enclosure with cover and gasket	1
EMT Setscrew Adapter	2
¼" X ≈ 6" Exhaust Tube	1
¼" X 1.1" hex aluminum spacers	4
Machine Screws 4/40 x ½" phillips flat head	4
Machine Screws 4/40 x 3/8" phillips pan head	4
Strain relief / seal for wiring exit hole	1
Nut for strain relief	1
Sheet metal mounting screws #6 X 1"	4
Adhesive foam compression seal	2
A full size drill template	1
1/2" sampling tube (outer diameter) <b><u>not provided</u></b>	0

### **INSTALLATION**

1. Open the enclosure by removing the 4 black integrated cover screws.
2. Install the setscrew adapters into the 2 (entrance and exit) holes drilled into the back of the enclosure so that the setscrew side of the adapter is on the outside of the enclosure.
3. Decide which hole will be used for sampling and which will be used for exhaust. The sampling tube (***not provided***) should be on the "upstream" side of the enclosure, as it is to be mounted on the duct ("upstream" refers to the flow of air in the duct \* see ***reference diagram*** below\*).
4. Install the exhaust tube into one of the setscrew adapters so that the squared end is mated to the setscrew adapter and the pointed end is toward the duct. The tube should be turned so that the longer pointed side is facing the direction of "upstream" air flow.
5. Install the sampling tube (***not provided***) into the other setscrew adapter according to the sampling tube manufacturer's instructions.
6. Install the detector onto the top of the 4 hex aluminum spacers. Secure it in place using the 4 pan head machine screws. Run the wiring through the strain relief. Twist the outer cap of the strain relief clockwise to compress the gasket material around the wiring.
7. Mark and drill the 2 large (1 ½") and 4 small (3/32) holes in the duct you want to mount the unit on, using the template provided. The two large holes are for the sampling and exhaust tubes. The four small holes are starter holes for the sheet metal mounting screws. Ensure that the sampling and exhaust tube holes are large enough to allow the setscrew adapters to fit.

8. Place each of the 4 sheet metal mounting screws in one of the holes at the corners of the enclosure base (the same holes that the black cover screws go into).
9. Place the enclosure onto the duct to test for proper hole alignment.
10. Place the unit against the duct in its intended position. Fasten the enclosure to the duct by tightening the 4 sheet metal screws.
11. Replace the cover and tighten the integrated cover screws. The enclosure is slightly rectangular and therefore alignment of the cover is important.
12. Connect the wiring according to the installation instructions provided with the detector.

**REFERENCE DIAGRAM:**



**SERVICING OF UNIT**

The DMK-1 does not require regular maintenance. All Maintenance and repair of products manufactured by Macurco are to be performed at the manufacturing facility. Macurco does not sanction third-party repair facilities.

**LIMITED WARRANTY**

The DMK-1 duct mount kit is warranted to be free from defective material and workmanship for a period of two (2) year from the date of manufacture (stamped on the unit). If any component becomes defective during the warranty period, it will be replaced or repaired free of charge, if the unit is returned in accordance with the instructions below. This warranty does not apply to units that have been altered or had repair attempted, or that have been subjected to abuse, accidental or otherwise. The above warranty is in lieu of all other express warranties, obligations or liabilities. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE LIMITED TO A PERIOD OF TWO (2) YEARS FROM THE PURCHASE DATE. Macurco shall not be liable for any incidental or consequential damages for breach of this or any other warranty, express or implied, arising out of or related to the use of said gas detector. Manufacturer or its agents liability shall be limited to replacement or repair as set forth above. Buyer’s sole and exclusive remedies are return of the goods and repayment of the price, or repair and replacement of non-conforming goods or parts. (The Uniform Commercial Code applicable in the State of Colorado shall govern.)

**RETURN INSTRUCTIONS**

Call (303) 781-4062 for a Return Authorization Number. Then carefully pack the DMK-1 with a written description of the nature of the return. Send the unit to the following address:

**Macurco**  
**6555 South Kenton Street Suite 304**  
**Centennial, CO 80111**