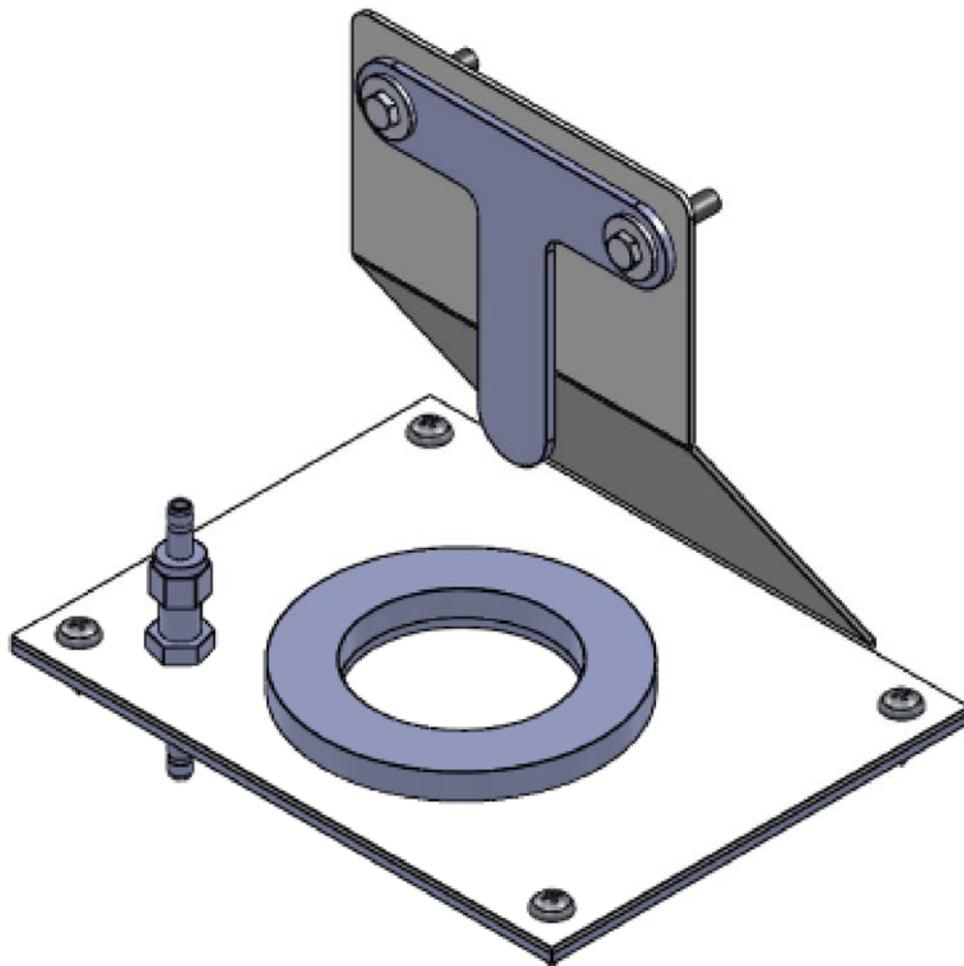




**Universal Duct Mount Assembly Kit
(UDM-003)
Instruction Guide**



Introduction

The UDM-003(Universal Duct Mount) is Net Safety’s latest design for allowing sensors to monitor ducts. With its angular design and stability, it firmly supports a variety of Net Safety’s Sensors with Multi-purpose Junction Box to ducts.

The UDM-003 should be mounted with the following sensors: Millennium II Series Sensors, Millennium Premium ST Series Sensors, Gas Shield Sensors, Air Particle Monitor and SIR100 Sensors.

The instructions herein, are guides in setting up and mounting the UDM-003 with sensor and multipurpose junction box to a duct. In order to ensure proper and safe mounting, follow the instructions given and ensure that all screws, nuts and bolts are tightly fitted. When calibrating, refer to the specific manuals as required. It is recommended that a 2.5 (or greater) liters per minute regulator be used when calibrating.

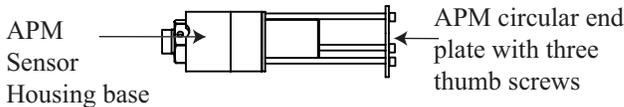
Warning:  Never install the UDM-003 at the bottom (underside) of a duct.

Important Notes:

The drawing showing mounting of the UDM-003 and sensor with junction box to a duct is a general representation.

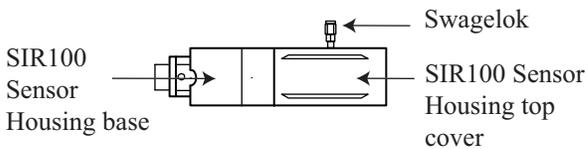
Air Particle Monitor (APM) Sensor

When mounting the Air Particle Monitor Sensor and junction box to the UDM-003, remove APM Sensor circular end plate by unscrewing the three thumb screws. Mount the sensor and junction box to the UDM-003 then replace plate and thumb screws.

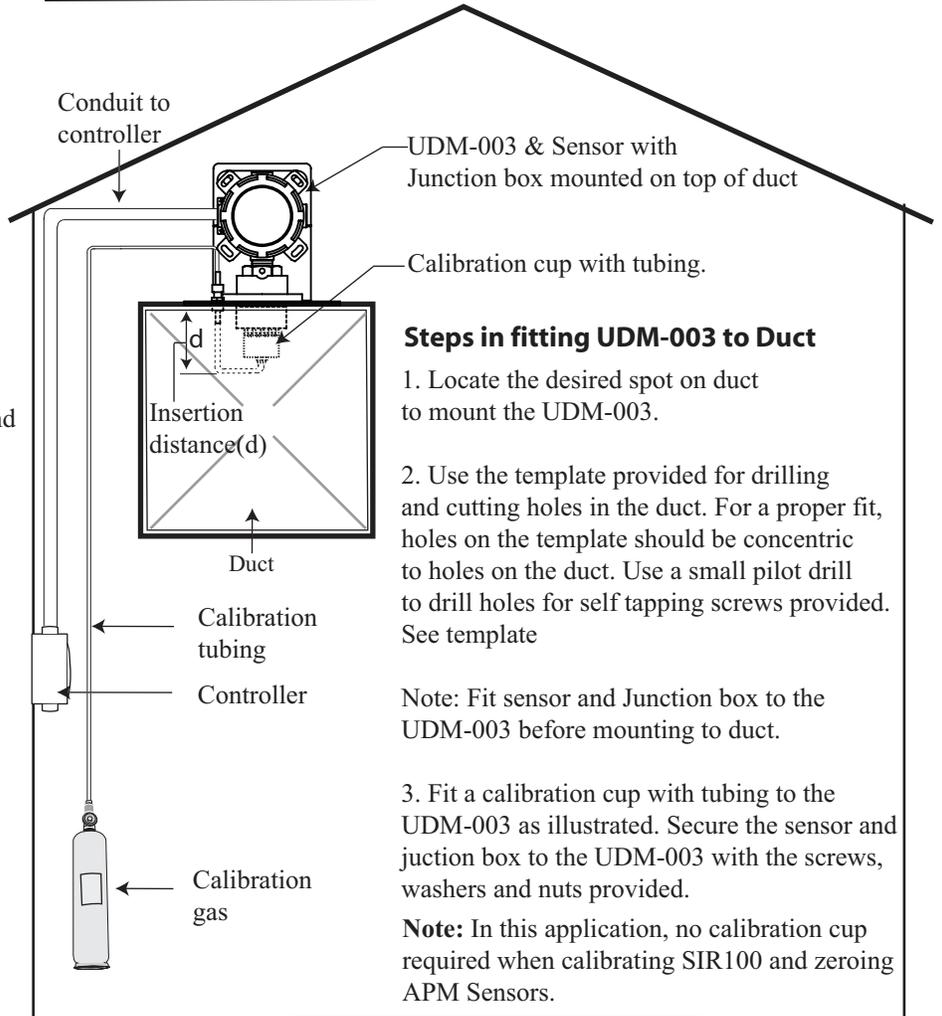


SIR100 Sensor

When mounting the SIR100 Sensor and junction box to the UDM-003 use a crescent wrench to remove the swagelok from the SIR100 sensor housing top cover. After mounting the sensor and junction box to the UDM-003 replace swagelok.



Mounting the UDM-003



Steps in fitting UDM-003 to Duct

1. Locate the desired spot on duct to mount the UDM-003.
2. Use the template provided for drilling and cutting holes in the duct. For a proper fit, holes on the template should be concentric to holes on the duct. Use a small pilot drill to drill holes for self tapping screws provided. See template

Note: Fit sensor and Junction box to the UDM-003 before mounting to duct.

3. Fit a calibration cup with tubing to the UDM-003 as illustrated. Secure the sensor and junction box to the UDM-003 with the screws, washers and nuts provided.

Note: In this application, no calibration cup required when calibrating SIR100 and zeroing APM Sensors.

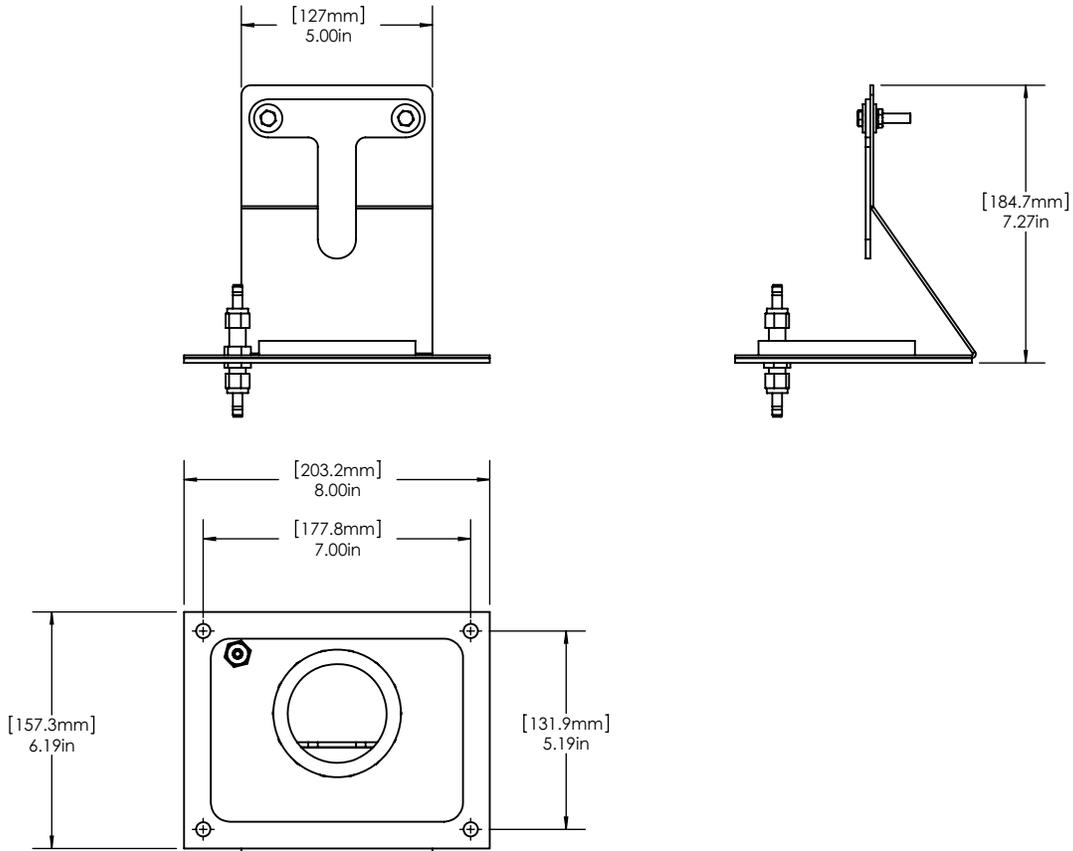
Insertion distance (d)

- 130 mm for Millennium II Series Sensors
- 160 mm for ST Series Sensors
- 150 mm for SIR Sensors
- 210 mm for APM Sensors

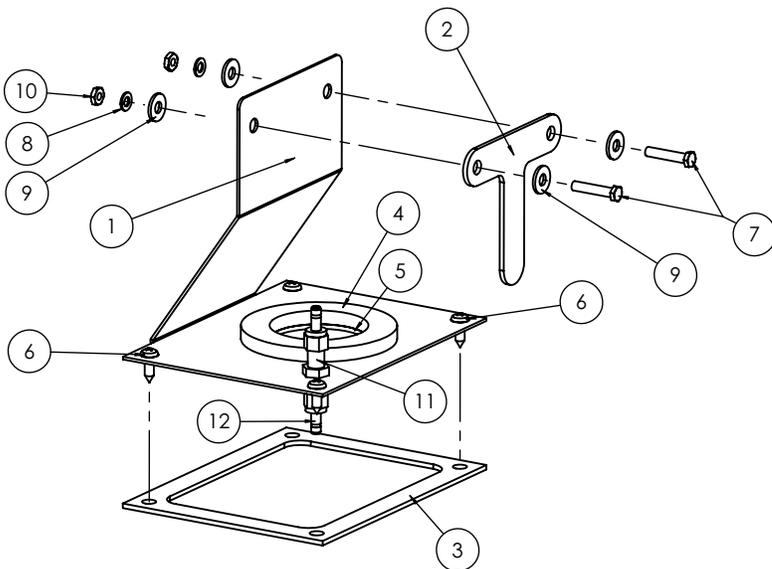
Specifications

Material: Stainless Steel
 Weight (UDM-003 without sensor and Jbox):
 Approx. 1.67 kg

UDM-003 Views and Dimensions



UDM-003 Exploded View with Part Number Table



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MFG-0256	Main Body	1
2	MFG-0257	Spacer	1
3	GSK-0040	Square Gasket	1
4	GSK-0041	Upper Round Gasket	1
5	GSK-0042	Lower Round Gasket	1
6	SCR-0129	SCREW, PHILLIPS PAN HEAD, 14DIA- A/B, 3/4"LG, TAP	4
7	SCR-0130	1/4" -20 x 1-1/4" LG GR 5 HEX HEAD CAP, ZINC PLATED	2
8	WSH-0015	1/4" Split Ring Lock Washer, Zn pltd. Steel	2
9	WSH-0029	1/4" Flat Washer, Zn pltd. Steel	4
10	NUT-0027	1/4"-20 Hex Nut, Grade 5, Zn pltd. Steel	2
11	HDW-0171	Swagelok Bulkhead Union, SS, 1/4in. Tube OD	1
12	HDW-0172	Port Connector, Swagelok, SS, 1/4in. Tube OD	2

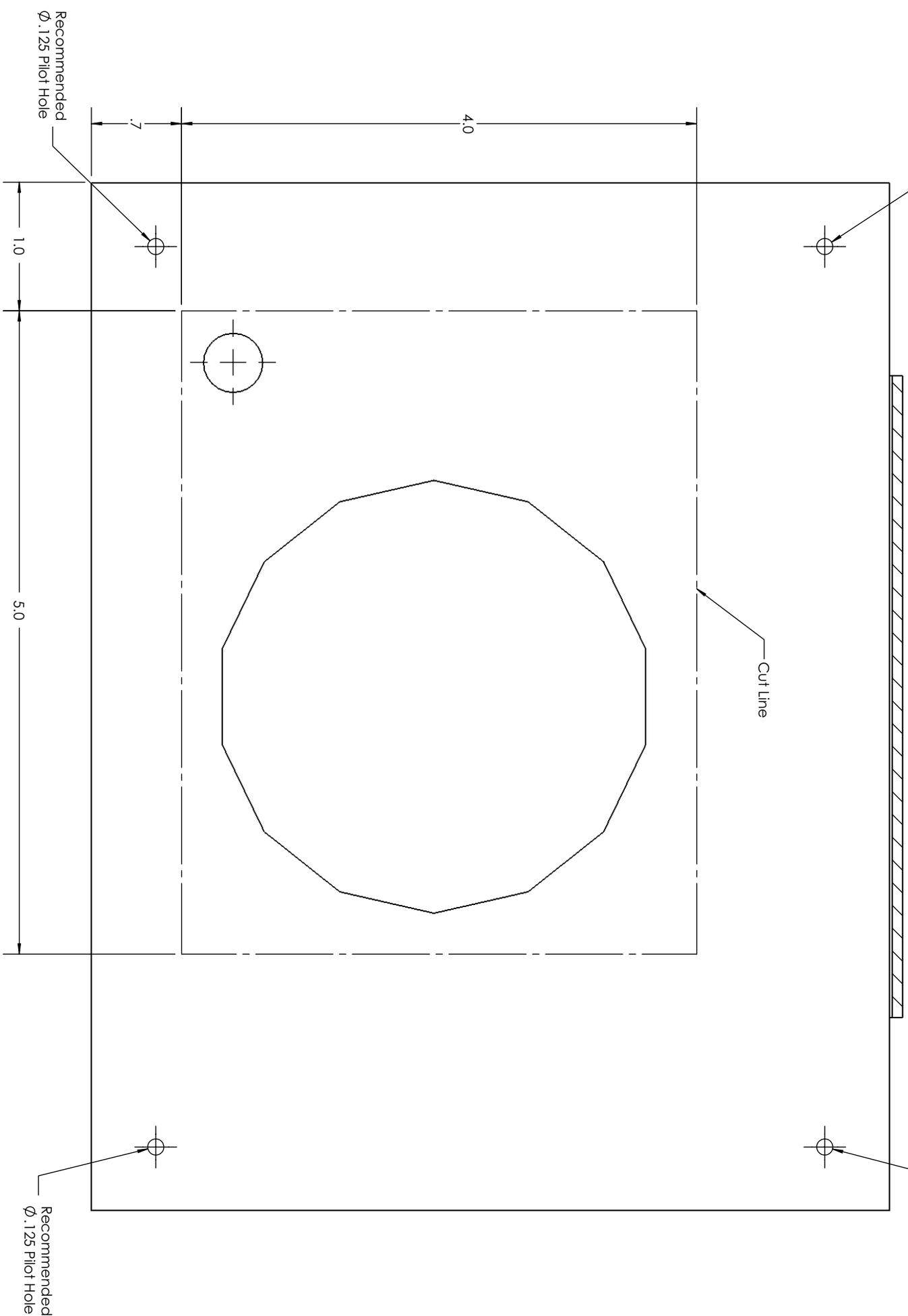
Note: Spacer (ITEM No. 2 (MFG-0257)) is not used when mounting with Aluminum Junction Box.

UDM-003 Template

Recommended
Ø .125 Pilot Hole

Recommended
Ø .125 Pilot Hole

Measurements are in inches



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