

GF1, HF1 AND SF1 FAN INLET SENSOR PROBE INSTALLATION







OVERVIEW

This document provides the instructions necessary to install Fan Inlet sensor probes for centrifugal, vane axial and plenum fan applications. Fan inlet sensor probes are supplied in throat mount, face mount and forward mount versions as shown in Figure 1. The throat mount version is designed for mounting directly in the inlet bell of centrifugal fans, or upstream of the impeller in vane axial fan applications. The face mount and the new forward mount versions are available for installation in more sensitive plenum fan applications.

Probes are supplied in either single or dual fan inlet configurations designated with model suffix “-F/SI” (for single inlet) or “-F/DI” (for dual inlet) applications. Each fan inlet is provided with two sensor probes and two pairs of adjustable rods with integral mounting brackets. Six standard sizes are available as shown in Tables 1 through 3 for Throat Mount, Face Mount and Forward Mount applications respectively.

Installation consists of measuring, marking and preparing the mounting rod bracket locations, installing the sensors onto the rods, and then securing the rod brackets and sensor assemblies to each fan inlet. For detailed fan inlet probe information, refer to the Fan Inlet Probe technical manual under separate cover. For detailed information on transmitter set up and operation of the complete airflow measurement station, refer to the associated transmitter technical manual under separate cover. Observe the following precautions during installation:

CAUTIONS/WARNINGS

-  Select suitable hardware for the installation and ensure that the hardware will not interfere with the moving parts of the fan. Failure to properly secure the fan inlet sensors can result in personal injury and damage to sensors and fan.
-  Setting the specified rod length is essential for proper installation and sensor performance.
-  The cable ordered must be of sufficient length for the distance between the transmitter and the furthest sensor probe as well as any necessary cable routing at the site.
-  Improper or excessive lubrication of the fan bearings can result in lubricant carry over and build up of foreign material on the sensor.
-  Avoid placement in the absorption area of humidifiers which will adversely affect performance.
-  Failure to setup and/or properly secure the GF1 sensor assembly can result in sensor and/or fan damage.

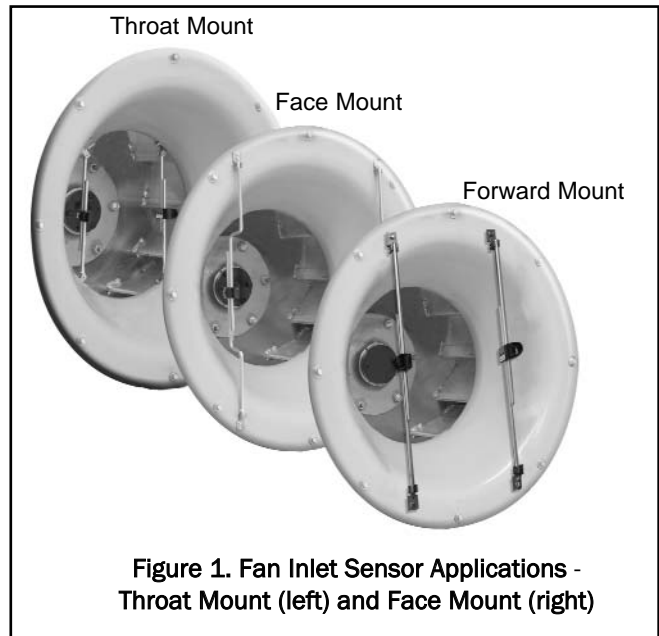


Figure 1. Fan Inlet Sensor Applications - Throat Mount (left) and Face Mount (right)

Table 1. Throat Mount Standard Sizes

| Standard Size Code | Inlet Throat Diameter | | | | Rod 4 Pack Part Number |
|--------------------|-----------------------------|---------|------------------|---------|------------------------|
| | is greater than or equal to | | and is less than | | |
| | inches | mm | inches | mm | |
| 1 | 11 | 279.40 | 14 | 355.60 | 700-3055 |
| 2 | 14 | 355.60 | 17 | 431.80 | 700-3056 |
| 3 | 17 | 431.80 | 29 | 736.60 | 700-3057 |
| 4 | 29 | 736.60 | 43 | 1092.20 | 700-3058 |
| 5 | 43 | 1092.20 | 57 | 1447.80 | 700-3059 |
| 6 | 57 | 1447.80 | 64 | 1625.60 | 700-3060 |

Table 2. Face Mount Standard Sizes

| Standard Size Code | Inlet Face Diameter | | | | Rod 4 Pack Part Number |
|--------------------|-----------------------------|---------|------------------|---------|------------------------|
| | is greater than or equal to | | and is less than | | |
| | inches | mm | inches | mm | |
| 1 | 11 | 279.40 | 13 | 330.20 | 700-4055 |
| 2 | 13 | 330.20 | 18 | 457.20 | 700-4056 |
| 3 | 18 | 457.20 | 23 | 584.20 | 700-4057 |
| 4 | 23 | 584.20 | 32 | 812.80 | 700-4058 |
| 5 | 32 | 812.80 | 46 | 1168.40 | 700-4059 |
| 6 | 46 | 1168.40 | 64 | 1625.60 | 700-4060 |

“D” Inlet Face Diameter - Measure Across Flat Face at Flare Edge

Table 3. Forward Mount Standard Sizes

| Standard Size Code | Inlet Face Diameter | | | | Rod 4 Pack Part Number |
|--------------------|-----------------------------|---------|------------------|---------|------------------------|
| | is greater than or equal to | | and is less than | | |
| | inches | mm | inches | mm | |
| 1 | 11 | 279.40 | 13 | 330.20 | 700-5055 |
| 2 | 13 | 330.20 | 18 | 457.20 | 700-5056 |
| 3 | 18 | 457.20 | 23 | 584.20 | 700-5057 |
| 4 | 23 | 584.20 | 32 | 812.80 | 700-5058 |
| 5 | 32 | 812.80 | 46 | 1168.40 | 700-5059 |
| 6 | 46 | 1168.40 | 64 | 1625.60 | 700-5060 |

“D” Inlet Face Diameter - Measure Across Flat Face at Flare Edge

IG_GF1_HF1_SF1_R2A

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HYBRID SERIES INSTALLATION GUIDE
SILVER SERIES INSTALLATION GUIDE

IDENTIFICATION OF THROAT MOUNT, FACE MOUNT AND FORWARD MOUNT SENSOR RODS

The methods for measuring the diameters are different for each of the mounting applications. Identification of the rod types ensures that the correct application and sensor placement dimensions are provided. Throat mount sensors are supplied with straight rods and brackets for installation in the throat of the inlet cone as shown in Figures 2 and 3. Face mount sensors are supplied with rods that have an offset bend and brackets for mounting on the face of plenum fans as shown in Figure 4. Forward mount sensors are supplied with straight rods and brackets for mounting on the face of plenum fans as shown in Figure 5.

CAUTION



Ensure that the proper rods have been supplied for the intended application before proceeding with installation. Measurement of the fan inlet diameter is critical to ensure optimum sensor placement and performance of the air-flow measurement station.

Read and understand all Cautions/Warnings and installation steps prior to installation. The sensors are always installed in pairs (marked INSIDE LEFT and INSIDE RIGHT) in the fan inlet with cables exiting downward, and sensors parallel to one another.

Check for obstructions at the fan inlet prior to installation. It may be necessary to rotate the orientation of the sensors to avoid any interfering obstructions in the fan inlet. For specific installation questions, concerns or assistance, please contact **EBTRON** Applications Engineering Team at 800.2EBTRON (800.232-8766).

Installation procedures for throat mount, face mount and forward mount sensors is detailed in the following paragraphs. Convenient check boxes are included in each procedure to ensure that all steps are completed.

THROAT MOUNT APPLICATIONS (STRAIGHT RODS WITH NO BENDS)

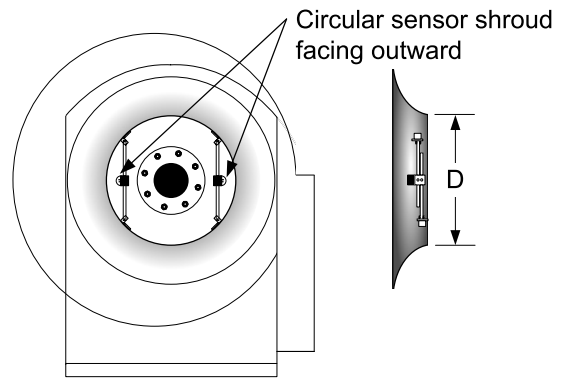


Figure 2. Centrifugal Fan Throat Mount

THROAT MOUNT APPLICATIONS (STRAIGHT RODS WITH NO BENDS)

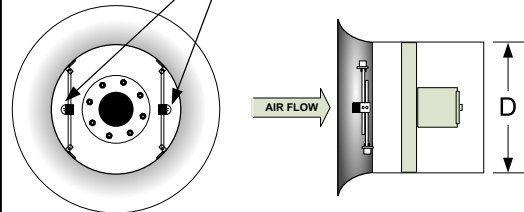


Figure 3. Vane Axial Fan Throat Mount

FACE MOUNT APPLICATIONS (RODS WITH OFFSET BENDS)

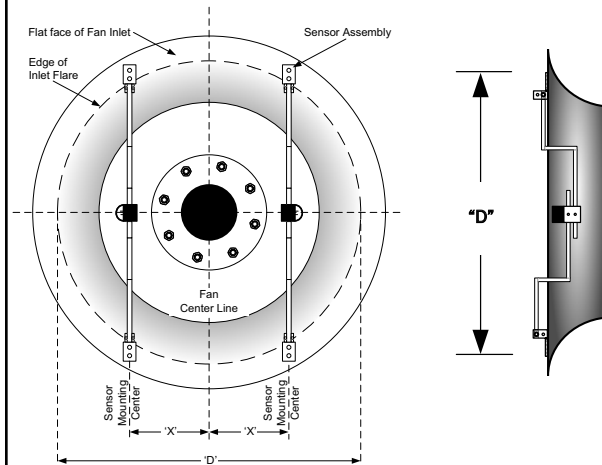


Figure 4. Face Mount

FORWARD MOUNT APPLICATIONS (STRAIGHT RODS WITH NO BENDS)

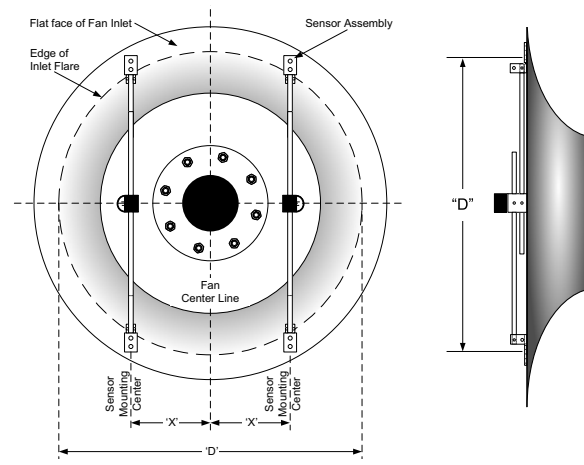


Figure 5. Forward Mount

For Forward and Face Mount:

"D" is the diameter of the flat portion of the large inlet opening at the point where the inside flare begins.

QUICK INSTALLATION GUIDE

Throat Mount Sensor Installation

1. Physically locate the fan indicated on the engineer's plans where the air flow measuring station is to be installed.
2. Measure the diameter ("D") of the inlet of the fan where the sensor assemblies will be installed as shown in Figures 2 and 3. Refer to Table 1 to verify that the proper sensors and rod 4 packs have been received.
3. Using sensor marked "INSIDE LEFT", insert a mounting rod into sensor mounting block inner rod hole with sensor oriented as in Figure 6 and cable exit downward.
4. Insert a second mounting rod from the opposite direction into the outermost hole as shown in Fig. 6.
5. Locate **DIMENSION 'L'** in Table 4 to determine the setup distance, "L", measured from roll pin to sensor set screws.
6. Adjust inner and outer rods so that the distance between the roll pin of each foot and the set screws on the mounting block are equal to "L".
7. Tighten the set screws using the hex wrench provided.
8. Repeat Steps 3 thru 7 to prepare an INNER RIGHT sensor with sensor shroud oriented to the right (opposite as shown in Figure 6) with cable exit downward.
9. Install the sensor assembly labeled "INSIDE LEFT" at left side of fan inlet with the sensor shroud pointing outward and cable exit downward. Select suitable hardware for the installation that will not hinder rotation of the fan.
10. Install the sensor assembly labeled "INSIDE RIGHT" at right side of fan inlet with the sensor shroud pointing outward and cable exit downward. Select suitable hardware for the installation that will not hinder rotation of the fan.
11. Strap down sensor cables to the mounting rods using the tie wraps provided (minimum two tie wraps per sensor).
12. Route sensor cables to the area where the transmitter will be located and secure the cables with appropriate hardware. Sensor installation is complete. Refer to the separate technical manual TM_GTx116 for connection and set up of the GTx116 transmitter.
13. For dual fan inlet applications, repeat steps 3 through 12 to install sensors at the other fan inlet opening.

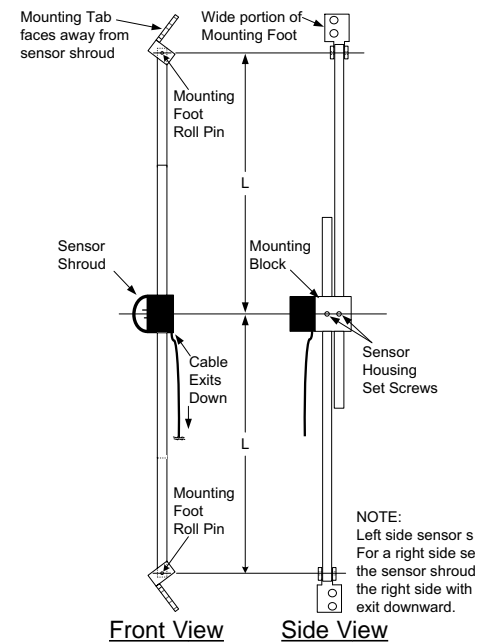
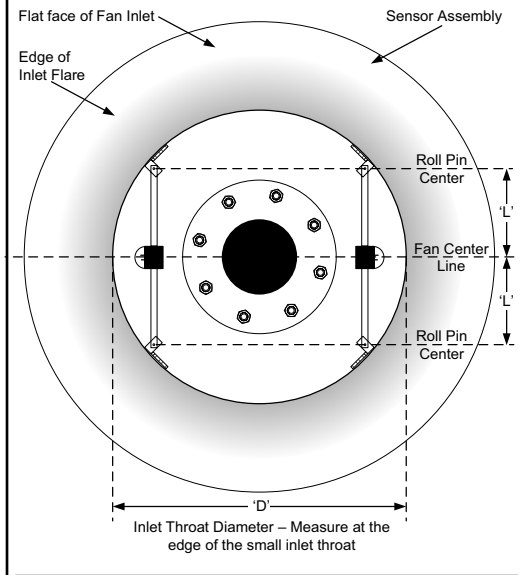


Figure 6. Throat Mount Detail

Table 4. Throat Mount Dimension 'L' Determination

| Inlet Diameter "D" (in.) | L (in.) | Inlet Diameter "D" (mm) | L (mm) | Inlet Diameter "D" (in.) | L (in.) | Inlet Diameter "D" (mm) | L (mm) | Inlet Diameter "D" (in.) | L (in.) | Inlet Diameter "D" (mm) | L (mm) |
|--------------------------|---------|-------------------------|--------|--------------------------|----------|-------------------------|--------|--------------------------|----------|-------------------------|--------|
| 11 | 3 11/16 | 279.40 | 93.84 | 29 | 11 1/4 | 736.60 | 286.25 | 47 | 18 7/8 | 1193.80 | 478.66 |
| 12 | 4 1/8 | 304.80 | 104.53 | 30 | 11 11/16 | 762.00 | 296.94 | 48 | 19 1/4 | 1219.20 | 489.35 |
| 13 | 4 9/16 | 330.20 | 115.22 | 31 | 12 1/8 | 787.40 | 307.63 | 49 | 19 11/16 | 1244.60 | 500.04 |
| 14 | 4 15/16 | 355.60 | 125.91 | 32 | 12 1/2 | 812.80 | 318.32 | 50 | 20 1/8 | 1270.00 | 510.73 |
| 15 | 5 3/8 | 381.00 | 136.59 | 33 | 12 15/16 | 838.20 | 329.01 | 51 | 20 1/2 | 1295.40 | 521.42 |
| 16 | 5 13/16 | 406.40 | 147.28 | 34 | 13 3/8 | 863.60 | 339.70 | 52 | 20 15/16 | 1320.80 | 532.11 |
| 17 | 6 1/4 | 431.80 | 157.97 | 35 | 13 13/16 | 889.00 | 350.39 | 53 | 21 3/8 | 1346.20 | 542.80 |
| 18 | 6 5/8 | 457.20 | 168.66 | 36 | 14 3/16 | 914.40 | 361.08 | 54 | 21 13/16 | 1371.60 | 553.49 |
| 19 | 7 1/16 | 482.60 | 179.35 | 37 | 14 5/8 | 939.80 | 371.77 | 55 | 22 3/16 | 1397.00 | 564.18 |
| 20 | 7 1/2 | 508.00 | 190.04 | 38 | 15 1/16 | 965.20 | 382.46 | 56 | 22 5/8 | 1422.40 | 574.87 |
| 21 | 7 7/8 | 533.40 | 200.73 | 39 | 15 1/2 | 990.60 | 393.15 | 57 | 23 1/16 | 1447.80 | 585.56 |
| 22 | 8 5/16 | 558.80 | 211.42 | 40 | 15 7/8 | 1016.00 | 403.83 | 58 | 23 8/16 | 1473.20 | 596.25 |
| 23 | 8 3/4 | 584.20 | 222.11 | 41 | 16 5/16 | 1041.40 | 414.52 | 59 | 23 7/8 | 1498.60 | 606.94 |
| 24 | 9 3/16 | 609.60 | 232.80 | 42 | 16 3/4 | 1066.80 | 425.21 | 60 | 24 5/16 | 1524.00 | 617.63 |
| 25 | 9 9/16 | 635.00 | 243.49 | 43 | 17 3/16 | 1092.20 | 435.90 | 61 | 24 3/4 | 1549.40 | 628.32 |
| 26 | 10 | 660.40 | 254.18 | 44 | 17 9/16 | 1117.60 | 446.59 | 62 | 25 3/16 | 1574.80 | 639.01 |
| 27 | 10 7/16 | 685.80 | 264.87 | 45 | 18 | 1143.00 | 457.28 | 63 | 25 9/16 | 1600.20 | 649.70 |
| 28 | 10 7/8 | 711.20 | 275.56 | 46 | 18 7/16 | 1168.40 | 467.97 | 64 | 26 | 1625.60 | 660.38 |

L = distance between locking set screw at sensor housing and mounting foot roll pin

Face Mount Sensor Installation

1. Physically locate the fan where the air flow measuring station is to be installed on the engineer's plans.
2. Use the hex wrench provided to loosen the sensor housing set screws on the sensor mounting block as shown in Figure 7.
3. Using sensor marked "INSIDE LEFT", insert an inner mounting rod (with mounting bracket attached at inner roll pin) into sensor mounting block inner rod hole with sensor oriented as in Fig. 7.
4. Insert outer mounting rod (with mounting bracket attached at outer roll pin) into sensor mounting block outer rod hole (Figure 7).
5. Using sensor marked "INSIDE RIGHT", repeat steps 3 and 4 with sensor shroud oriented to the right (opposite) as in Figure 7.
6. Measure the diameter ('D') of the fan inlet **FLAT FACE**, measured at the **flat portion of the flat face of the inlet at the point where the inlet flare just begins**.
7. Using Diameter 'D', locate DIMENSION 'X' in Table 5 to determine the fan inlet center line to sensor mounting center line for each sensor as shown in Figure 7.
8. Adjust the inner and outer rods of each sensor so that the distance between the left and right rod centers and the fan center line is equal to dimension 'X'. Now adjust the mounting block so that the sensor body is located exactly at the horizontal fan center line. Tighten the set screws using the hex wrench provided.
9. Install sensor assembly labeled "INSIDE LEFT" at the left side of the flat face of the fan inlet as in Figure 7. Use suitable hardware for installation that does not hinder rotation of the fan.
10. Install sensor assembly labeled "INSIDE RIGHT" at the right side of the flat face of the fan inlet as in Figure 7. Use suitable hardware for installation that does not hinder rotation of the fan.
11. Strap down sensor cables to mounting rods using the tie wraps provided (minimum of two tie wraps per sensor).
12. Route sensor cables to the transmitter and secure them with appropriate hardware. Sensor installation is complete. Refer to the separate technical manual TM_GTx116 for connection and set up of the GTx116 transmitter.
13. For dual fan inlet applications, repeat steps 3 through 12 to install sensors at the other fan inlet opening.

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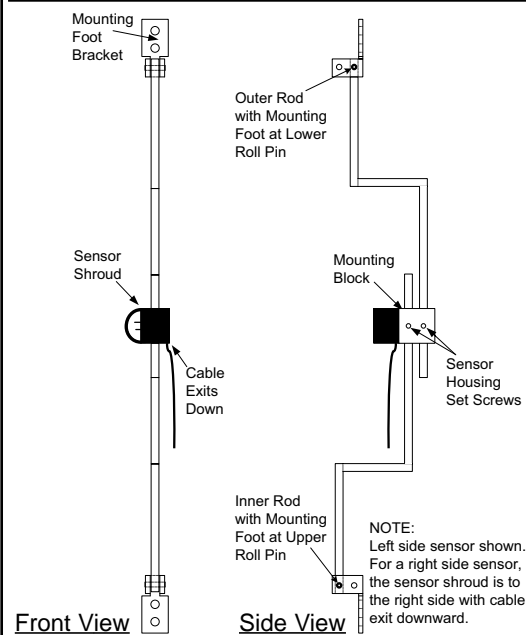
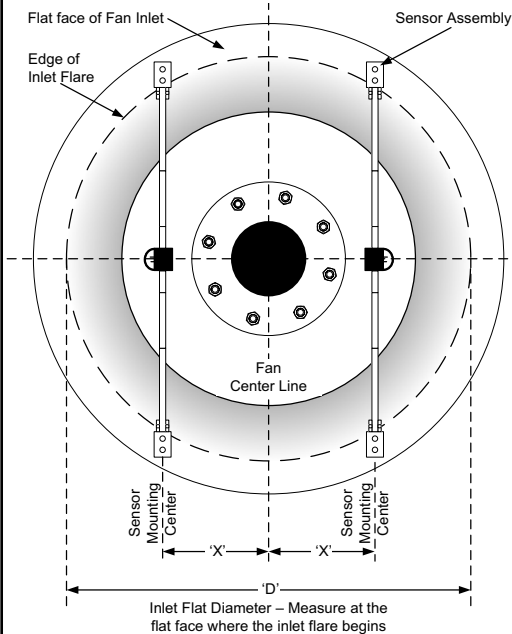


Figure 7. Face Mount Detail

Table 5. Face Mount Dimension "X" Determination

| Inlet Diameter "D" (in.) | X (in.) | Inlet Diameter "D" (mm) | X (mm) | Inlet Diameter "D" (in.) | X (in.) | Inlet Diameter "D" (mm) | X (mm) | Inlet Diameter "D" (in.) | X (in.) | Inlet Diameter "D" (mm) | X (mm) |
|--------------------------|---------|-------------------------|--------|--------------------------|----------|-------------------------|--------|--------------------------|----------|-------------------------|--------|
| 11 | 3 3/8 | 279.40 | 86.08 | 29 | 9 3/4 | 736.60 | 247.73 | 47 | 16 1/8 | 1193.80 | 409.37 |
| 12 | 3 3/4 | 304.80 | 95.06 | 30 | 10 1/8 | 762.00 | 256.71 | 48 | 16 1/2 | 1219.20 | 418.35 |
| 13 | 4 1/8 | 330.20 | 104.04 | 31 | 10 7/16 | 787.40 | 265.69 | 49 | 16 13/16 | 1244.60 | 427.33 |
| 14 | 4 7/16 | 355.60 | 113.02 | 32 | 10 13/16 | 812.80 | 274.67 | 50 | 17 3/16 | 1270.00 | 436.31 |
| 15 | 4 13/16 | 381.00 | 122.00 | 33 | 11 3/16 | 838.20 | 283.65 | 51 | 17 1/2 | 1295.40 | 445.29 |
| 16 | 5 3/16 | 406.40 | 130.98 | 34 | 11 1/2 | 863.60 | 292.63 | 52 | 17 7/8 | 1320.80 | 454.27 |
| 17 | 5 1/2 | 431.80 | 139.96 | 35 | 11 7/8 | 889.00 | 301.61 | 53 | 18 1/4 | 1346.20 | 463.25 |
| 18 | 5 7/8 | 457.20 | 148.94 | 36 | 12 1/4 | 914.40 | 310.59 | 54 | 18 9/16 | 1371.60 | 472.23 |
| 19 | 6 3/16 | 482.60 | 157.92 | 37 | 12 9/16 | 939.80 | 319.57 | 55 | 18 15/16 | 1397.00 | 481.21 |
| 20 | 6 9/16 | 508.00 | 166.91 | 38 | 12 15/16 | 965.20 | 328.55 | 56 | 19 5/16 | 1422.40 | 490.19 |
| 21 | 6 15/16 | 533.40 | 175.89 | 39 | 13 5/16 | 990.60 | 337.53 | 57 | 19 5/8 | 1447.80 | 499.17 |
| 22 | 7 1/4 | 558.80 | 184.87 | 40 | 13 5/8 | 1016.00 | 346.51 | 58 | 20 | 1473.20 | 508.15 |
| 23 | 7 5/8 | 584.20 | 193.85 | 41 | 14 | 1041.40 | 355.49 | 59 | 20 3/8 | 1498.60 | 517.14 |
| 24 | 8 | 609.60 | 202.83 | 42 | 14 3/8 | 1066.80 | 364.47 | 60 | 20 11/16 | 1524.00 | 526.12 |
| 25 | 8 5/16 | 635.00 | 211.81 | 43 | 14 11/16 | 1092.20 | 373.45 | 61 | 21 1/16 | 1549.40 | 535.10 |
| 26 | 8 11/16 | 660.40 | 220.79 | 44 | 15 1/16 | 1117.60 | 382.43 | 62 | 21 7/16 | 1574.80 | 544.08 |
| 27 | 9 1/16 | 685.80 | 229.77 | 45 | 15 7/16 | 1143.00 | 391.41 | 63 | 21 3/4 | 1600.20 | 553.06 |
| 28 | 9 3/8 | 711.20 | 238.75 | 46 | 15 3/4 | 1168.40 | 400.39 | 64 | 22 1/8 | 1625.60 | 562.04 |

Refer to detail in Figure 7 for "D" Inlet Diameter and "X" distance between fan center line and sensor center line.

QUICK INSTALLATION GUIDE

Forward Mount Sensor Installation

1. Physically locate the fan where the air flow measuring station is to be installed on the engineer's plans.
2. Use the hex wrench provided to loosen the sensor housing set screws on the sensor mounting block as shown in Figure 8.
3. Using sensor marked "INSIDE LEFT", insert an inner mounting rod (with mounting bracket attached at inner roll pin) into sensor mounting block inner rod hole with sensor oriented as in Fig. 8.
4. Insert outer mounting rod (with mounting bracket attached at outer roll pin) into sensor mounting block outer rod hole (Figure 8).
5. Using sensor marked "INSIDE RIGHT", repeat steps 3 and 4 with sensor shroud oriented to the right (opposite) as in Figure 8.
6. Measure the diameter ('D') of the fan inlet **FLAT FACE**, measured at the **flat portion of the flat face of the inlet at the point where the inlet flare just begins**.
7. Using Diameter 'D', locate DIMENSION 'X' in Table 6 to determine the fan inlet center to sensor center line for each sensor as shown in Figure 8.
8. Adjust the inner and outer rods of each sensor so that the distance between the left and right rod centers and the fan center line is equal to dimension 'X'. Now adjust the mounting block so that the sensor body is located exactly at the horizontal fan center line. Tighten the set screws using the hex wrench provided.
9. Install sensor assembly labeled "INSIDE LEFT" at the left side of the flat face of the fan inlet as in Figure 8. Use suitable hardware for installation that does not hinder rotation of the fan.
10. Install sensor assembly labeled "INSIDE RIGHT" at the right side of the flat face of the fan inlet as in Figure 8. Use suitable hardware for installation that does not hinder rotation of the fan.
11. Strap down sensor cables to mounting rods using the tie wraps provided (minimum of two tie wraps per sensor).
12. Route sensor cables to the transmitter and secure them with appropriate hardware. Sensor installation is complete. Refer to the separate technical manual TM_GTx116 for connection and set up of the GTX116 transmitter.
13. For dual fan inlet applications, repeat steps 3 through 12 to install sensors at the other fan inlet opening.

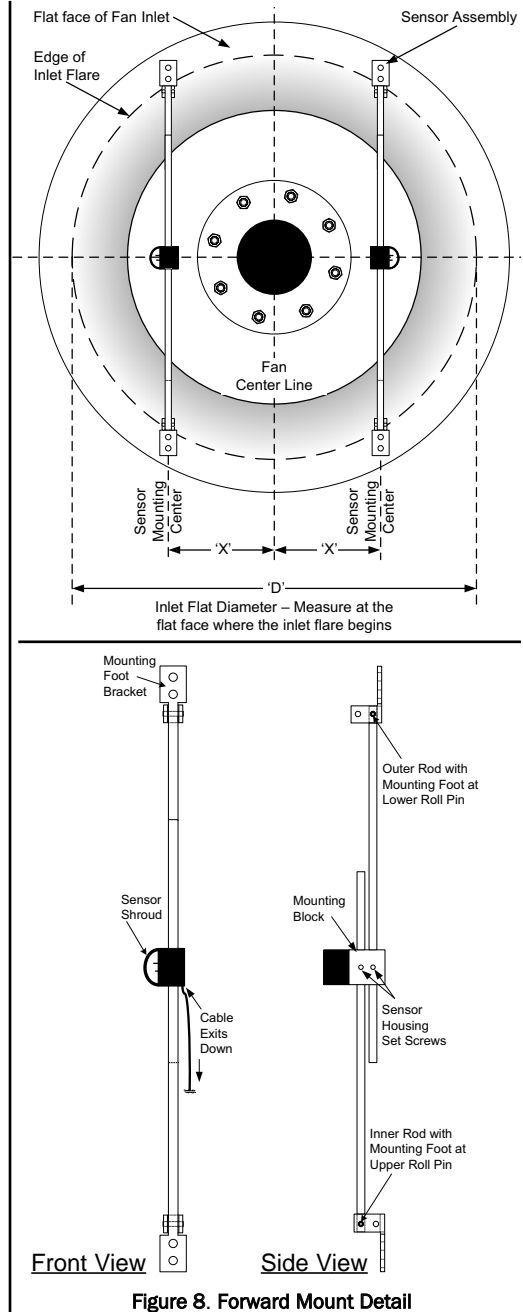


Figure 8. Forward Mount Detail

Table 6. Forward Mount Dimension 'X' Determination

| Inlet Diameter 'D' (in.) | 'X' (in.) | Inlet Diameter 'D' (mm) | 'X' (mm) | Inlet Diameter 'D' (in.) | 'X' (in.) | Inlet Diameter 'D' (mm) | 'X' (mm) | Inlet Diameter 'D' (in.) | 'X' (in.) | Inlet Diameter 'D' (mm) | 'X' (mm) |
|--------------------------|-----------|-------------------------|----------|--------------------------|-----------|-------------------------|----------|--------------------------|-----------|-------------------------|----------|
| 11 | 3 3/8 | 279.40 | 86.08 | 29 | 9 3/4 | 736.60 | 247.73 | 47 | 16 1/8 | 1193.80 | 409.37 |
| 12 | 3 3/4 | 304.80 | 95.06 | 30 | 10 1/8 | 762.00 | 256.71 | 48 | 16 1/2 | 1219.20 | 418.35 |
| 13 | 4 1/8 | 330.20 | 104.04 | 31 | 10 7/16 | 787.40 | 265.69 | 49 | 16 13/16 | 1244.60 | 427.33 |
| 14 | 4 7/16 | 355.60 | 113.02 | 32 | 10 13/16 | 812.80 | 274.67 | 50 | 17 3/16 | 1270.00 | 436.31 |
| 15 | 4 13/16 | 381.00 | 122.00 | 33 | 11 3/16 | 838.20 | 283.65 | 51 | 17 1/2 | 1295.40 | 445.29 |
| 16 | 5 3/16 | 406.40 | 130.98 | 34 | 11 1/2 | 863.60 | 292.63 | 52 | 17 7/8 | 1320.80 | 454.27 |
| 17 | 5 1/2 | 431.80 | 139.96 | 35 | 11 7/8 | 889.00 | 301.61 | 53 | 18 1/4 | 1346.20 | 463.25 |
| 18 | 5 7/8 | 457.20 | 148.94 | 36 | 12 1/4 | 914.40 | 310.59 | 54 | 18 9/16 | 1371.60 | 472.23 |
| 19 | 6 3/16 | 482.60 | 157.92 | 37 | 12 9/16 | 939.80 | 319.57 | 55 | 18 15/16 | 1397.00 | 481.21 |
| 20 | 6 9/16 | 508.00 | 166.91 | 38 | 12 15/16 | 965.20 | 328.55 | 56 | 19 5/16 | 1422.40 | 490.19 |
| 21 | 6 15/16 | 533.40 | 175.89 | 39 | 13 5/16 | 990.60 | 337.53 | 57 | 19 5/8 | 1447.80 | 499.17 |
| 22 | 7 1/4 | 558.80 | 184.87 | 40 | 13 5/8 | 1016.00 | 346.51 | 58 | 20 | 1473.20 | 508.15 |
| 23 | 7 5/8 | 584.20 | 193.85 | 41 | 14 | 1041.40 | 355.49 | 59 | 20 3/8 | 1498.60 | 517.14 |
| 24 | 8 | 609.60 | 202.83 | 42 | 14 3/8 | 1066.80 | 364.47 | 60 | 20 11/16 | 1524.00 | 526.12 |
| 25 | 8 5/16 | 635.00 | 211.81 | 43 | 14 11/16 | 1092.20 | 373.45 | 61 | 21 1/16 | 1549.40 | 535.10 |
| 26 | 8 11/16 | 660.40 | 220.79 | 44 | 15 1/16 | 1117.60 | 382.43 | 62 | 21 7/16 | 1574.80 | 544.08 |
| 27 | 9 1/16 | 685.80 | 229.77 | 45 | 15 7/16 | 1143.00 | 391.41 | 63 | 21 3/4 | 1600.20 | 553.06 |
| 28 | 9 3/8 | 711.20 | 238.75 | 46 | 15 3/4 | 1168.40 | 400.39 | 64 | 22 1/8 | 1625.60 | 562.04 |

Refer to detail in Figure 8 for "D" Inlet Diameter and "X" distance between fan center line and sensor center line.

