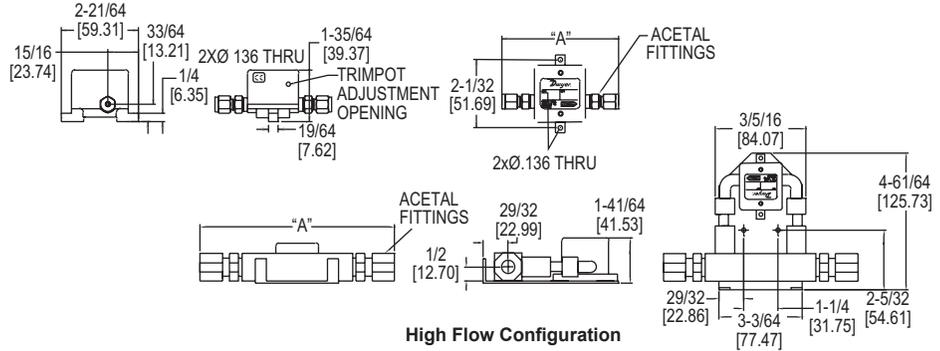




SERIES TFP-GV

# GAS TURBINE FLOW METER

PPS Body, 0 to 5 VDC Output



The **SERIES TFP-GV** Gas Flowmeters utilize a turbine wheel and electro-optical data detection to convert flow rates into a linear 0 to 5 VDC output signal for recording and data logging. A power adapter or mating cable assembly is required for operation.

### FEATURES/BENEFITS

- Corrosion resistant PPS body
- High repeatability with patented microturbine design
- Design accurately measures flow rates with no zero drift and no required maintenance

### APPLICATIONS

- Industrial flow monitoring
- Commercial systems
- Laboratory equipment

### MODEL CHART

Model	Range	Connection	"A" (in)
<b>TFP-GV03</b>	.042 to .21 SCFH (.02 to .1 LPM)	1/8" OD	3-27/64
<b>TFP-GV04</b>	.085 to .42 SCFH (.04 to .2 LPM)	1/8" OD	3-27/64
<b>TFP-GV05</b>	.21 to 1.1 SCFH (.1 to .5 LPM)	1/8" OD	3-27/64
<b>TFP-GV06</b>	.42 to 2.1 SCFH (.2 to 1 LPM)	1/8" OD	3-27/64
<b>TFP-GV07</b>	.85 to 4.2 SCFH (.4 to 2 LPM)	1/4" OD	3-13/16
<b>TFP-GV08</b>	2.1 to 11 SCFH (1 to 5 LPM)	1/4" OD	3-13/16
<b>TFP-GV09</b>	4.2 to 21 SCFH (2 to 10 LPM)	1/4" OD	3-13/16
<b>TFP-GV10*</b>	8.5 to 42 SCFH (4 to 20 LPM)	3/8" OD	7-7/64
<b>TFP-GV11*</b>	21 to 110 SCFH (10 to 50 LPM)	3/8" OD	7-7/64
<b>TFP-GV12*</b>	42 to 210 SCFH (20 to 100 LPM)	1/2" OD	7-1/2
<b>TFP-GV13*</b>	85 to 420 SCFH (40 to 200 LPM)	1/2" OD	7-1/2

\*These modes come in high flow configuration

### SPECIFICATIONS

**Service:** Clean dry gases compatible with wetted materials.  
**Wetted Materials:** PPS, acetal, sapphire, glass, epoxy, and fluoroelastomer.  
**Accuracy:** ±3% of FS.  
**Linearity:** ±3% of FS.  
**Repeatability:** ±0.5% of FS.  
**Temperature Limits:** 41 to 131°F (5 to 55°C); Storage: 32 to 158°F (0 to 70°C);  
 Sensitivity: ±0.2% of FS per °C.  
**Pressure Limits:** 40 psig (2.8 bar).  
**Process Connection:** Compression fitting, see model table.  
**Power Requirements:** 11.5 to 15 VDC.  
**Power Consumption:** 35 mA @ 12 VDC.  
**Output Signal:** 0 to 5 VDC; Minimum 2.5 kΩ load.  
**Electrical Connections:** Four-pin power and signal connector. A power adapter or mating cable required for operation. See accessories table.  
**Enclosure Rating:** IP10 (NEMA 1).  
**Weight:** 0.16 lb (75 g).

### ACCESSORIES

Model	Description
<b>A-454</b>	115 VAC power adapter and signal cable
<b>A-455</b>	230 VAC power adapter and signal cable
<b>A-456</b>	36" mating cable with spliced leads