

# TG Series Gas Turbine Flow Meter

## Common Uses

TG Turbine flow meters are widely used for gas flow measurement due to their high accuracy, fast response time, and ability to handle a wide range of flow rates and pressures. Unlike thermal or differential pressure technologies, TG Turbines offer excellent repeatability and are well-suited for clean, dry gases. Their mechanical simplicity and proven reliability make them a preferred choice in industries where precision and durability are critical. Typical applications include:

- Fuel gas measurement for industrial burners and boilers
- Compressed air monitoring in manufacturing plants
- Compressed natural gas (CNG) lines
- Test stands and calibration systems
- Nitrogen and other inert gas usage tracking in packaging and processing
- Engine and turbine performance testing in aerospace and automotive industries



## Technical Specifications

General Meter Data	
9 Flow Ranges	0.5 to 1250 ACFM (across all meter sizes)
Linearity	±1.0% (density dependent)
Repeatability	±0.1% over full range
Max. Operating Pressure	up to 15,000 psi (end connection dependent)
End Connections	Grooved, NPT, flanged, or wafer (consult factory for other options)
Operating Temperature Range	-450°F to +450°F (up to 850°F with special coil)
Certifications	CRN Certified, ISO 9001, NIST traceable calibration

## Meter Materials of Construction

Body	316 stainless steel
Rotor	17-4 PH stainless steel
Ball Bearings	440C Stainless Steel with self-lubricating retainer

## Compatible Electronics

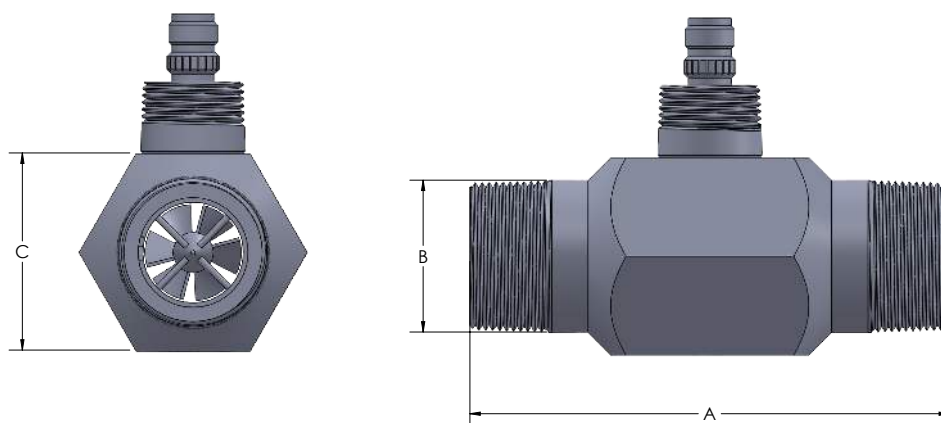
Standard (included)	Pulse output
EDGE Sensor	Pulse, analog, or Modbus outputs
Digital Display	EX rated, flow rate & total, analog and pulse outputs

# TG Series Gas Turbine Flow Meter

## Meter Data - Sizes

Part Number	Port Size & Type	Flow Range		Pressure Rating (PSI)	Weight	
		(ACFM)	(LPM)		(Lbs)	(Kg)
TG-1-20-ACFM	1" NPT	0.5-20	14.15-566.33	5000	2	0.91
TG-1-30-ACFM	1" NPT	3-30	84.95-849.50	5000	2	0.91
TG-1-60-ACFM	1" NPT	4-60	113.26-1699.01	5000	2	0.91
TG-2-90-ACFM	2" NPT	2-90	56.63-2548.51	4160	6	2.72
TG-2-250-ACFM	2" NPT	15-260	424.75-7362.38	5000	6	2.72
TG-3-650-ACFM-VIC	3" NPT	40-650	1132.67-18,405.95	1000	15	6.80
TG-3-650-ACFM	3" NPT	40-650	1132.67-18,405.95	1790	15	6.80
TG-4-1250-ACFM-VIC	4" NPT	75-1250	2123.76-35,396.05	1000	20	9.07
TG-4-1250-ACFM	4" NPT	75-1250	2123.76-35,396.05	1950	20	9.07

## Meter / Sensor Dimensions



Part Number	A OAL (in)	B Pipe OD (in)	C Height (in)
TG-1-20-ACFM	4	1.315	1.875
TG-1-30-ACFM	4	1.315	1.875
TG-1-60-ACFM	4	1.315	1.875
TG-2-90-ACFM	6	2.375	2.75
TG-2-250-ACFM	6	2.375	2.75
TG-3-650-ACFM-VIC	10	3.454	3.454
TG-3-650-ACFM	9.8	3.5	3.68
TG-4-1250-ACFM-VIC	12	4.469	4.469
TG-4-1250-ACFM	11.5	4.5	4.65

*Products may be subject to change without notice. Contact factory for the most up-to-date product information.*