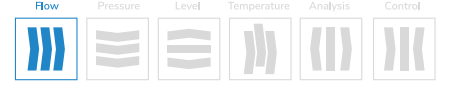


TDAS

Gas Turbine Flowmeter



OVERVIEW

Operation

The Bass Instruments Gas Turbine Flowmeter provides accurate measurement over a wide flow range thanks to its lightweight, low-inertia rotor. The device offers low flow resistance, while its cartridge design simplifies maintenance and component replacement. The carbide shaft and bearings require no lubrication and ensure a long service life. Designed for installation between two flanges, the flowmeter provides a digital pulse output for monitoring instantaneous flow rate and total gas volume. Pressure and temperature compensation enables gas volume to be calculated at standard conditions.

Features

- Flow ranges from 0,5 to 6500 Nm³/h
- Rugged stainless steel or aluminium construction
- Meter bore sizes from DN25 to DN300 flange end connections DIN or ANSI
- Accuracy of $\pm 1,5\%$ of reading or $\pm 1\%$ on request
- Electronic integration available with
- LCD Flow Monitor, F to I Intelligent
- Converter or the K-Factor Scaler
- Standart Manufacturer Calibration Certificate
- Optional RS-485 communication
- Optional Battery Powered Display
- Optional pressure and temperature compensation



OPERATING DATA

Turndown Ratio

10 : 1 standart , 20 : 1 or 30 : 1 on request

Accuracy

±1,5% of reading, ± 1 on request

Repeatability

±0,1%

Calibration

Standart Manufacturer Calibration Certificate

Pressure Rating

16 bar or 40 bar max.

Temperature

-30°C...80°C

Connection

Flange DIN, ANSI, JIS or Threaded

Power Supply

12...24 VDC for pulse 24VDC for analog and LCD
3 VDC lithium battery for battery powered LCD

Protection

IP65

Hazardous Area

Ex d II B T6 on request

MATERIALS

Body

AISI304 Stainless steel or Aliminum

Rotor

Anti-erosive ABS or Aluminum alloy

Rotor Support

AISI 316 Stainless steel



TYPE AND FLOW RATE TABLES

Type	End Connection	Standart Flow Range m3/h	Max. Working Pressure
TDAS.025.S0	DN 25	2...25	40
TDSS.040.S0	DN 40	5...50	40
TDAS.050.S0	DN 50	6,5...65	40
TDAS.050.S1		10...100	
TDAS.050.S2		15...160	
TDAS.080.S0	DN 80	13...250	16
TDAS.080.S1		20...400	
TDAS.080.S2		32...650	
TDAS.100.S0	DN 100	20...400	16
TDAS.100.S1		32...650	
TDAS.100.S2		50...1000	
TDAS.150.S0	DN 150	32...650	16
TDAS.150.S1		50...1000	
TDAS.150.S2		80...1600	
TDAS.200.S0	DN 200	80...1600	16
TDAS.200.S1		130...2500	
TDAS.200.S2		200...4000	
TDAS.250.S0	DN 250	130...2500	16
TDAS.250.S1		200...4000	
TDAS.300.S0		200...4000	16
TDAS.300.S1		320...6500	



ORDERING

Model	
TDAS	Gas Turbine Flowmeter

Connection	
D	Thread (please specify NPT,G or B SP)1" and 1 1/4"
F	Flanged (please specify DIN,ANSI ,JIS)

Converter Type	
P	Pulse output
A	4-20 mA output
B	Lithium battery powered,with display,without output
L	4-20 mA output,with display
C	RS-485 communication,with display, 24VDC
H	Pressure and temperature compensation and 4-20mA, RS485 comm .

Accuracy	
15	±1,5% of reading
10	±1 % of reading

Turbine Material	
S	Anti-corrosion ABS
L	Aluminium alloy

Body Material	
S	AISI 304 SS
L	Aluminium alloy

Enclosure	
N	IP65
E	Ex d II B T6 flameproof

