

THERMAL GAS MASS FLOW METER



GITM

Description

The thermal mass flow meter is designed on the basis of thermal dispersion, and adopts method of constant differential temperature to measuring gas flow. It has advantages of small size, easy installation, high reliability and high accuracy.

Applications

- Compressed air/ gas
- Combustion air flow
- Natural gas
- Greenhouse gas emissions

Features

- Measuring the mass flow or volume flow of gas
- Do not need to do temperature and pressure compensation in principle with accurate measurement and easy operation
- The meter also can be used for gas leak detection
- Good vibration resistance and long service life
- No moving parts and pressure sensor in transducer, no vibration influence on the measurement accuracy
- Easy installation and maintenance
- Digital design, high accuracy and stability
- Configuring with RS485 or HART interface to realize factory automation and integration

Technical Data

Measuring Medium	Various gases (Except the acetylene)
Diameter	DN10- DN4000
Velocity	0.1-100 Nm/s
Accuracy	±1.0%; ±2.5%
Working Temperature	Sensor: -40°C...+200°C Transmitter: -20°C...+45°C
Working Pressure	Insertion sensor: medium pressure≤ 1.6MPa Flange sensor: medium pressure≤ 1.6MPa Special pressure please contact supplier
Power Supply	Compact type: 24V DC or 220V AC, Power consumption ≤18W Remote type: 220V AC, Power consumption ≤19W
Response Time	1s
Output	4-20mA; Pulse
Communication	RS485 and HART
Alarm Output	1-2 line Relay, Normally Open state, 10A/220V/AC or 5A/30V/DC
Sensor Type	Standard Insertion, Hot-tapped Insertion and Flange
Construction	Compact and Remote
Pipe Material	Carbon steel, stainless steel, plastic, etc.
Display	4 lines LCD Mass flow, Volume flow in standard condition, Flow totalizer, Date and Time, Working time, and Velocity, etc.
Protection	IP65
Body Material	SS304; SS316
Explosion Proof	ExdIICTGb



Remote Type



Thread Type



insertion Type

Mode Selection

Model	Suffix Code							Description
	1	2	3	4	5	6	7	
GITM-	S							Thermal Mass Flow Meter
	L							Compact Type
Structure		15						Remote Type
		20						DN15
Diameter	Round Pipe	25						DN20
		25						DN25
		2000						DN2000
		25*25						25*25
	Square Pipe	50*50						50*50
		100*100						100*100
Body Material		100*100						
		2000*2000						2000*2000
Temperature	S4							SS304 Material
	S6							SS316 Material
	T1							-40...+100°C
	T2							-40...+150°C
	T3							-40...+200°C
Communication		1						RS485
		2						HART
Power Supply			1					24V DC
			2					220V AC
Connection				F				Flange Type: DIN; JIS; ANSI
				I				Insertion Type
Explosion Proof				T				Thread Type
				BT				ExdIIBT4
				NA				None