



# TBZ Series

## Turbine Gas Meter



- Low-cost and compact compared with conventional gas meters
- Highly accurate
- Can be installed in any installation position
- Optional pulse transmitter
- Measures many types of gases
- Built-in battery allows for 7 years of continuous operation

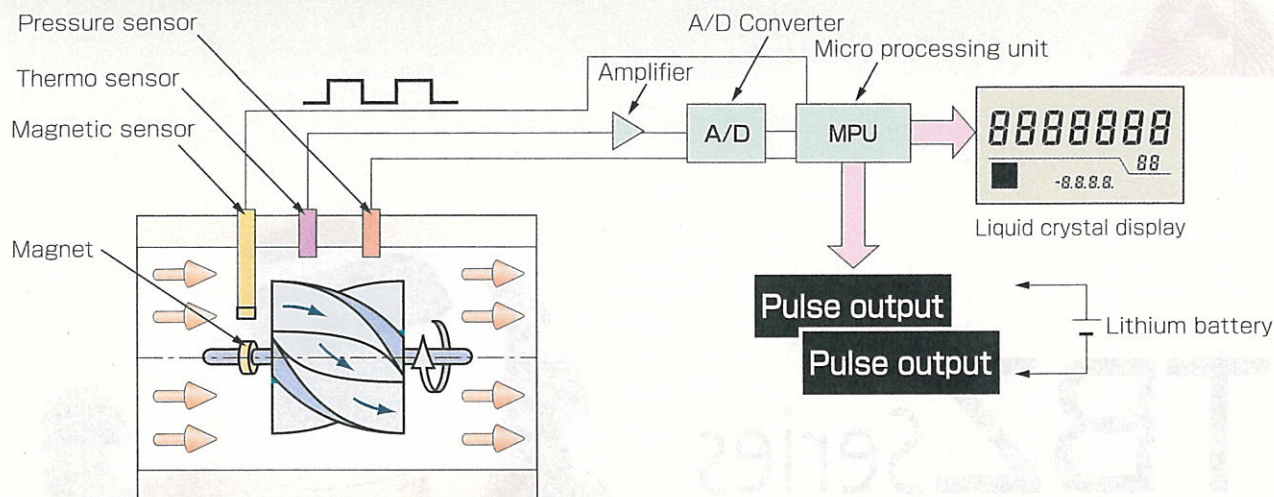
### ■ Specifications

Model		TBZ60	TBZ150	TBZ300
Flow range		6 to 60m <sup>3</sup> /h	12.5 to 150m <sup>3</sup> /h	30 to 300m <sup>3</sup> /h
Max.pressure		343 or 970kPa (3.5 or 9.9kgf/cm <sup>2</sup> )		
Accuracy	Flow measurement section	± 1% FS		
	Arithmemetic display Section	± 2% RS max.for TBZ***-3.5		
		± 3% RS max.for TBZ***-9.9		
Display	Integrated flow	LCD 9 digit , Minimum reading 10 liters		
	Trip	LCD 8 digit , Minimum reading 10 liters		
	Instantaneous	LCD 4 digit , Minimum reading 0.1m <sup>3</sup> /h		
	Temperature	LCD 3 digit , Minimum reading 0.1℃		
	Pressure	LCD 3 digit , Minimum reading 1kPa		
Temperature compensation		Please see the reverse side of this sheet		
Connection		1 1/2" Flange (JIS10K)	2" Flange (JIS10K)	3" Flange (JIS10K)
Acceptable temperature range		-10 to +60℃		
Installation position		Horizontal, Vertical (Display section turns)		
Measurable gases		Natural gas, LPG, Air, etc.		
Battery		Built-in lithium battery with a life of 7 years.(Approx.)		
Output pulse		2-systems open collector output (Unit pulse, High density pulse)		
Installallation		Indoor/Outdoor (Dripproof structure)		
Case material		Body/Flange : Stainless steel		
		Display : Aluminum alloy		
Weight		5.3kg	6.0kg	9.4kg

Note : Please avoid intrusion of carbonate substance (C5 or above) from LPG or City Gas, oil mist, and/or dust powder, etc. to the inside of the meter.



## ■ Measurement principle



## ■ Guide to choosing the most appropriate model

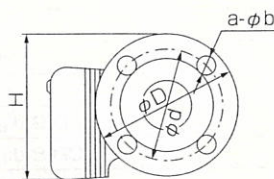
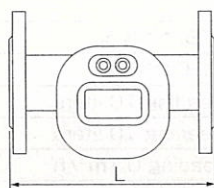
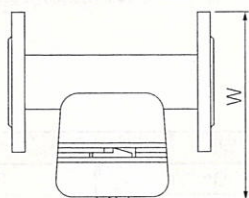
For the TBZ series, there are models that have temperature / pressure compensation functionality. This is to convert measured actual gas flow to gas flow at certain temperature and / or pressure conditions for display, as gas volume changes by variation of temperature and pressure.

Model	Temperature / Pressure Compensation Functionality
TBZ***-0	Actual Flow (No Temperature / Pressure Compensation Function), Max. Working Pressure 9.9 kgf/cm <sup>2</sup>
TBZ***-3.5	With Temperature and Pressure Compensation Function, Max. Working Pressure 3.5 kgf/cm <sup>2</sup>
TBZ***-9.9	With Temperature and Pressure Compensation Function, Max. Working Pressure 9.9 kgf/cm <sup>2</sup>
TBZ***-3.5P	With Pressure Compensation Function (No Temperature Compensation Function), Max. Working Pressure 3.5 kgf/cm <sup>2</sup>
TBZ***-9.9P	With Pressure Compensation Function (No Temperature Compensation Function), Max. Working Pressure 9.9 kgf/cm <sup>2</sup>

- By default, gas flow is compensated for 0°C and 1 atm. If other settings are desired, they can be entered at the factory.
- Please specify the direction of flow from the followings: Left to Right, Right to Left, Upward or Downward.

## ■ External dimensions

Unit : mm



Model	Externals size			JIS 10K Flange		
	L	H	W	φD	φd	a-φb
TBZ60	200	150	197	140	105	4-19
TBZ150	220	158	211	155	120	4-19
TBZ300	250	185	246	185	150	8-19

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Specifications are subject to change without notice.  
Printed in Japan (11/06)