TDF

THERMAL MASS FLOW METER

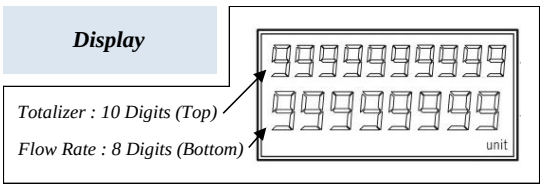
Approvals:

SIZE	STYLE TYPES	MEDIA
1/2 inch ~ 60 inch	Combine Pipe Insertion	Non Corrosive Dry Gas

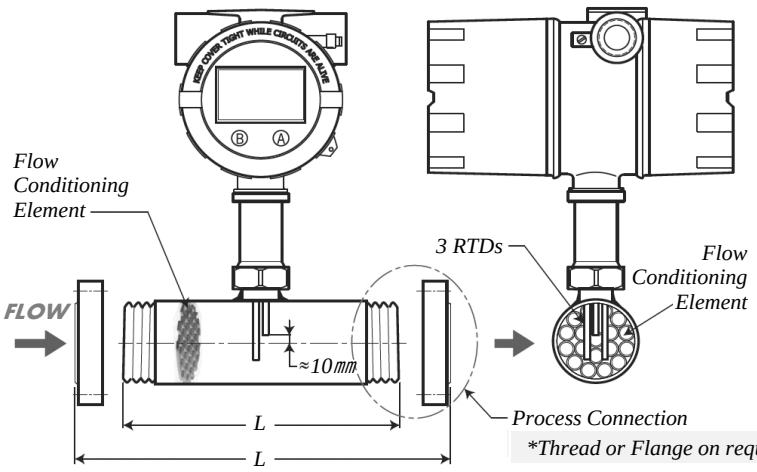
SPECIFICATION

MODEL & SIZE	TDF-CP : Combine Pipe Type (1/2…2 inch) TDF-IN : Insertion Type (2…60 inch)
APPLICATION	Non Corrosive Dry Gas
PROCESS CONNECTION	TDF-CP : NPT, BSP Male Thread / JIS, ANSI Flange TDF-IN : 3/4"NPT, BSP Male Thread / 1"~3" JIS, ANSI Flange
ACCURACY	+/- 1% of reading + 0.5% of full scale
REPEATABILITY	+/- 0.2% of full scale
RESPONSE TIME	< 1 second
WETTED MATERIALS	316SS
OUTPUT SIGNAL	DC4-20㎃
PRESSURE LIMIT	39.2 Bar
GAS TEMPERATURE	0 ... 80℃
POWER	24VDC
DISPLAY	2 Lines Blue Back-Lighted LCD Flow Rate & Totalizer
ELECTRICAL CONNECTION	3/4"NPT Female (std.) / 1/2"NPT Female / M20 X P1.5
ENCLOSURE	Aluminum alloy / IP65
EXPLOSION PROOF (certificate on housing only)	Class Ⅰ, Groups A, B, C, D Class Ⅱ, Groups E, F, G

Display



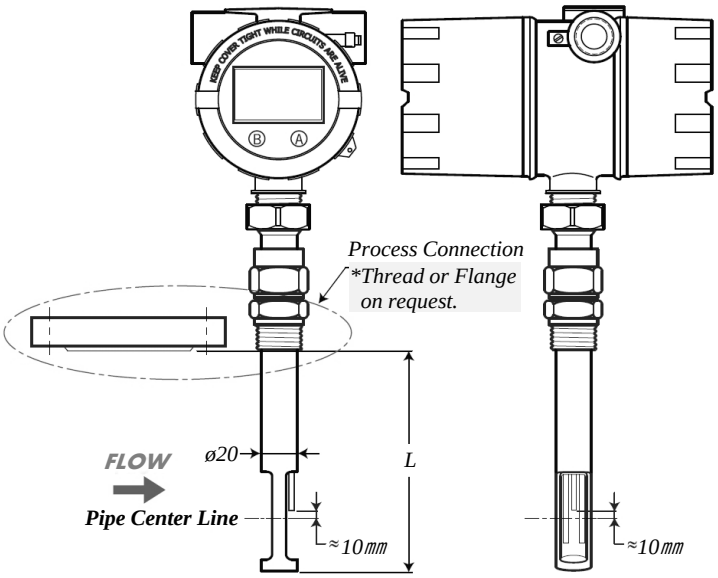
Model : TDF-CP (Combine Pipe Type)



Process Connection	Connection Type	"L" Length	Max. Flow Rate
1/2"	NPT / BSP Male Thread or Flange Type Available	330 ㎜	350 NLPM
3/4"			1,500 NLPM
1"			2,500 NLPM
1-1/4"			4,000 NLPM
1-1/2"			5,000 NLPM
2"			11,500 NLPM

NOTE. "L" is standard length.
Other "L" length, please consult with us.

Model : TDF-IN (Insertion Type)



Pipe Size	*Max. Flow Rate*
2"	*600 Nm^3/Hr*
2-1/2"	*800 Nm^3/Hr*
3"	*1200 Nm^3/Hr*
4"	*2000 Nm^3/Hr*

NOTE. *Other pipe size is on request.*

GAS FACTOR TABLE

ACTUAL GAS	SYMBOL	K FACTOR RELATIVE TO N_2	ACTUAL GAS	SYMBOL	K FACTOR RELATIVE TO N_2
Acetylene	C_2H_2	0.58	Hydrogen Bromide	HBr	1.00
Air	-	1.00	Hydrogen Chloride	HCl	1.00
Ammonia	NH_3	0.74	Hydrogen Selenide	H_2Se	0.79
Argon	Ar	1.42	Hydrogen Sulfide	H_2S	0.80
Bromine	Br_2	0.81	Isobutane	$CH(CH_3)_3$	0.20
Butane	C_4H_{10}	0.26	Isobutylene	C_4H_8	0.30
1-Butane	C_4H_8	0.30	Methane	CH_4	0.72
Carbon Dioxide	CO_2	0.74	Methanol	CH_3OH	0.58
Carbon Monoxide	CO	1.00	Methyl Acetylene	C_3H_4	0.43
Carbonyl Sulfide	COS	0.66	Methyl Bromide	CH_3Br	0.58
Chlorine	Cl_2	0.86	Methyl Chloride	CH_3Cl	0.63
Dimethyl Ether	$(CH_3)_2O$	0.39	Nitric Oxide	NO	1.00
Ethane	C_2H_6	0.50	Nitrogen Dioxide	NO_2	0.74
Ethanol	C_2H_6O	0.39	Nitrous Oxide	N_2O	0.71
Ethyl Acetylene	C_4H_6	0.32	Oxygen	O_2	0.99
Ethyl Chloride	C_2H_5Cl	0.39	Propane	C_3H_8	0.36
Ethylene	C_2H_4	0.60	Propylene	C_3H_6	0.41
Helium	He	1.43	Silane	SiH_4	0.60
Hexane	C_6H_{14}	0.18	Sulfur Dioxide	SO_2	0.69
Hydrogen	H_2	1.01	Sulfur Hexafluoride	SF_6	0.26

* Please contact us the K Factor value of other gases.