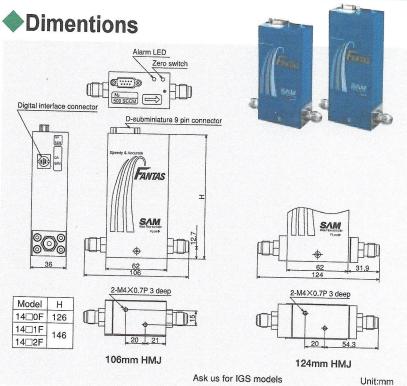
SFC1480 Series

Features

SFC1480F Series is a basic series of compact digital Mass Flow Controllers.

- 1. Outstanding control characteristics achieved even at very low flow rates. (Minimum control flow rate: F.S. 1SCCM)
- 2. Very low differential pressure service of less than 10 Torr is available.
- (1) The sensor tube of large ID achieved both the minimized pressure drop and high sensitivity.
- (2) Simple valve structure allows high Cv value reserve despite compact dimentions.
- 3. A wealth of data resources available Large amounts of data are available to allow the selection of the optimum mass flow controllers according to service gas type, operation pressure and temperature conditions and necessary.



Product specifications *1

Item			Specifications							
Model			Low flow model Conventional models Low differential pressure models							
			SFC1460F%2	SFC1480F	SFC1481F	SFC1482F	SFC1470F			
Standard full scale flow rate (N2 equivalent)			1/2/3/5/ 10 SCCM	10/20/30/50/ 100/200/300 500 SCCM 1/2/3/5 SLM	10 SLM	20 SLM	SFC1470F SFC1471F SFC1472F To be decided subject to agreement with customer on specified gas, pressure conditions, etc			
Valve operation			Normally closed		Normally	closed / Normally	open			
	Operation Inlet		0.05-0.3MPa (Gauge) 0.1-0.3MPa (Gauge)			Less than 1.3x10 ⁻³ MPa is also acceptable (Subject to consultation)				
pressure	Outlet		Vacuum-atmospheric pressure							
Flow control range			2—100% of full scale							
Accuracy			±0.5% of full scale							
Response time			Less than 2.0 sec to full scale(within±2%)		Less than 1 se	ec to full scale (with	rithin ±2%)			
Proof pressure										
Temperature	Operation		1.0MPa (Gauge)							
	Accuracy guaranteed		5-50°C							
	Baking		15—35℃ 80℃							
Leak integrity	Metal seal									
	Rubber seal		Less than 1x10 ⁻¹¹ Pa · m³/s(He)							
	Valve seat		Less than 1x10*Pa · m³/s(He) SUS316L							
Principle materials	Diaphragm									
	Sensor		YET101 (Ni-Co alloy) SUS316L, Ni-brazing %3							
	Seal Metal Rubber		14.10							
			Metal O-ring (SUS316L/Ni-plated) %3 PTFE, Viton O-ring							
Set-point input			0.1—5VDC (absolute maximum rating ±15VDC)							
Flow signal output			0.1 3VDC (absolute maximum rating ±15VDC) 0-5VDC (max:+15VDC, min:-15VDC)							
Power supply			+15VDC (±4%) 100mA (max120mA)							
			—15VDC (±4%) 100mA (max120mA) —15VDC (±4%) 100mA (max120mA)							
Finish of gas wetted area			Special electropolishing %4							
Connection			D-Subminiature (9 pin)							
Fittings										
Those specifications at			1/4"HMJ (UJR) male ※5							

^{*1} These specifications can be guaranteed in Hitachi Metals' standard measurement condition. They may not be guaranteed in other measurement condition. ※2 Contact us for applicable gases of SFC1460F series.

^{※3} Ni free models are also available.(except SFC14□2F)

^{*4} Standard surface finishing for rubber seal models is machine-finish.

^{※5} Contact us for other fittings.