

Z532, Z542 Digital / Analog Mass Flow Controller / Meter

Mass flow controller model	SEC-Z532KVX	SEC-Z542KVX
Mass flow meter model	SEF-Z532KX	SEF-Z542KX
Full-scale flow rate (N ₂ conversion flow rate)	100SLM	200SLM
Valve Type	C: Normally closed	
Flow rate at fully closed control valve	≤ 5% F.S.	
Flow rate control range	5-100% of F.S.	
Flow rate measuring range (SEF)	0-100% of F.S.	
Accuracy *2	±1.0% S.P. (flow rate > 35% F.S.)	
	±0.35% F.S. (flow rate ≤ 35% F.S.)	
Operating temperature	5 to 50°C (recommended temperature range: 15 to	
Response	≤ 1.5 second: Over full flow rate range (typically 1	
Linearity	≤ ±0.5% F.S.	
Repeatability	≤ ±0.2% F.S.	≤ ±0.5% F.S.
Operating differential pressure	200 to 300 kPa (d)	
Operating differential pressure (SEF)	≤ 300 kPa (d)	
MAX. Operating pressure	300 kPa (g)	
Pressure resistance	1000 kPa (g)	
Leak Integrity	≤ 5 x 10 ⁻¹² Pa·m ³ /s(He)	
Flow rate setting signal	0.25 to 5 V DC (5% to F.S.); Input impedance 1 MΩ or	
Flow rate output signal	0 to 5 V DC (0% to F.S.); Minimum load resistance 2	
Digital interface	With address function: RS-485 (transmission speed	
	F-Net Protocol	
Wetted materials	316L Stainless Steel (polished surface), PTFE,	
Power supply	+15V ±5%, 150 mA	+15V ±5%, 150 mA
	-15V ±5%, 250 mA	-15V ±5%, 250 mA
Signal response	Analog: D-Sub 9-pin (TOP)	
	Digital: 2 LAN jacks (TOP)	
Standard Fitting *3	3/8 inch VCR equivalent	1/2 inch VCR equivalent
	Option: 1. 5 inch IGS	
Mounting orientation	Free	

*2 The flow rate precision guaranteed temperatures conform to SEMI E56-1296 standards. The associated with the full-scale MR and MG number values.

*3 IGS: Integrated Gas System

* SCCM and SLM are notations indicating the gas flow rate (mL/min, L/min, at 0°C and 101.3