

## Z514, Z524 Devicenet™ Mass Flow Controller / Meter

Mass flow controller model *1	SEC-Z514KX	SEC-Z514MGX	SEC-Z524MGXN	SEC-Z524MGX
Mass flow meter model *1	SEF-Z514KX	SEF-Z514MGX	SEF-Z524MGXN	SEF-Z524MGX
Full-scale flow rate		MR/MG number	MR/MG number #6.5:22SLM #07:30SLM #08:50SLM	
(N2 conversion flow rate)	1/2SCCM	#R01:10SCCM		
		#R1.5:17.5SCCM		
		#01:30SCCM		
		#1.5:55SCCM		
		#02:100SCCM		
		#2.5:175SCCM		
		#03:300SCCM		
		#3.5:550SCCM		
		#04:1SLM		
		#4.5:1.75SLM		
		#05:3SLM		
		#05.55LM		
		#06:10SLM		
Valve Type	O: Normally open C: Normally closed			
Flow rate at fully closed control valve	≤2% F.S.			
Flow rate control range	2-100% of F.S.			
Flow rate measuring range (SEF)	0-100% of F.S.			
Accuracy *2	±1.0%F.S.	±1.0% S.P. (Flow rate > 25% F.S.)		
		±0.25% F.S. (Flow rate ≤ 25% F.S.)		
Operating temperature	5 to 50°C (recommended temperature range: 15 to 45°C)			
Response	≤ 1 second: Over full flow rate range			
Linearity	≤ ±0.5% F.S.			
Repeatability		≤ ±0.2% F.S.	1	
Operating differential pressure	50 to 300 kPa (d)	50 to 300 kPa (d)	200 to 300 kPa (d)	Pa (d)
		#5.5, #06: 100 to 300 kPa (d)		
Operating differential pressure (SEF)	≤ 300 kPa (d)			
MAX. Operating pressure	450kPa(g)			
Pressure resistance	1000kPa(g)			
Leak Integrity	$\leq 5 \times 10^{-12} \text{Parm}^3/\text{s}$ (He)			
Digital interface	DeviceNet™ Protocol			
Wetted materials	316L Stainless Steel (polished surface)			
Power supply	Conforming to ODVA standards, DC 24 V, 4.0 VA			
Standard Fitting *3	1/4 inch VCR equivalent 1/4 inch VCR equivalent   Option: 1.125 inch IGS, 1.5 inch IGS Option: 1.125 inch IGS			
Mounting orientation	Option. 1.125 Incl	Free		
Mounting orientation		FIEE		

\*1 The gas type and full scale settings for the SEC(SEF)-Z514MGX and Z524MGXN can be changed by the operator, using special software.

\*2 The flow rate precision guaranteed temperatures conform to SEMI E56-1296 standards. The precision is that 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 kPa).