GAS CORRECTION FACTORS For FMA1800, FMA-5700 and FMA-8500 Flow Sensors



Actual Flow Rate of Gas = Flow Rate of Nitrogen X Factor

Example:

FMA-1714 used with Helium gas, (He) Calculations: Range of FMA1714 for Nitrogen, N₂: 0 to 1000 SCCM Conversion Factor for Helium for FMA1714 Models: 1.45 Flow Rate of Helium: (0 to 1000 SCCM) x 1.45 = 0 to 1450 SCCM Description: The FMA1714 Mass Flow Sensor has a linear 0 to 5 Vdc output. When used with Helium gas, the output will be proportional to a flow rate of 0 to 1450 SCCM.

	Correction Factor for		Correction Factor for
Compound (Formula)	FMA1700/1800 and FMA-700A/800A	Compound (Formula)	FMA1800
Ammonia (NH ₃)	0.73	Hydrogen lodide (HI)	0.99
Argon (Ar)	1.45	Krypton (Kr)	1.453
Butane (C ₄ H ₁₀)	0.26	Methane (CH ₄)	0.72
Carbon Dioxide (CO ₂)	0.74	Neon (Ne)	1.46
Carbon Tetrafluoride (Freon 14) (CF ₄)	0.42	Nitrogen (N ₂)	1.00
Chlorine (Cl ₂)	0.86	Nitrogen Dioxide (NO ₂)	0.74
Ethane (C ₂ H ₆)	0.50	Nitrous Oxide (N ₂ O)	0.71
Fluorine (F ₂)	0.98	Oxygen (O ₂)	0.99
Helium (He)	1.45	Propane (C ₃ H ₈)	0.36
Hydrogen (H ₂)	1.01	Silane (SiH ₄)	0.60
Hydrogen Bromide (HBr)	1.00	Sulfur Dioxide (SO ₂)	0.69
Hvdrogen Chloride (HCI)	1.00	Xenon (Xe)	1.44

Correction factors for other gases available. Consult Engineering Department for details. **Note:** Not all gases listed are compatible with each model. To determine exact compatibility,

consult Engineering Department. Conversion factors reduce accuracy by 2%.