AWM700 Series, Compensated/Amplified

Table 1. Specifications

Characteristic	Parameter	
	AWM720P1	**AWM730B5**
Flow range	+200 SLPM	±300 SLPM
Excitation voltage[1]	10 Vdc ±0.01 Vdc	5 Vdc ±0.01 Vdc
Power supply	8.0 Vdc min./10.0 Vdc typ./15.0 Vdc max.	9.0 Vdc min./16.0 Vdc max.
Power consumption	60 mW	
Output loading: sinking sourcing	 10 mA typ. 20 mA typ.	
Calibration gas	air	
Null voltage shift: 25 °C to -25 °C [77 °F to -13 °F] 25 °C to 85 °C [77 °F to 185 °F] 25 °C to 5 °C [77 °F to 41 °F] 25 °C to 60 °C [77 °F to 140 °F]	 ±0.025 Vdc typ. ±0.025 Vdc typ. — —	 — — ±0.02 Vdc typ. ±0.02 Vdc typ.
Full scale output shift: 25 °C to 10 °C [77 °F to 50 °F] 25 °C to 40 °C [77 °F to 104 °F] 25 °C to 5 °C [77 °F to 41 °F] 25 °C to 60 °C [77 °F to 140 °F]	 -2.0 Vdc %reading typ. +2.0 Vdc %reading typ. — —	 — — ±2.5 %reading typ. ±2.5 %reading typ.
Ratiometricity error[1]	±0.30 %reading typ.	—
Repeatability and hysteresis[2]	±0.50 %reading max.	±0.035 Vdc typ.
Response time[3]	6 ms typ.	10 ms typ.
Warmup time	—	5 s
Pressure drop at full scale	2,5 mbar | 250 Pa | 1.0 in$H_2$0 typ.	3,0 mbar | 300 Pa | 1.2 in$H_2$0 typ.
Overpressure	1720 mbar | 172 kPa | 25 psi max.	1034 mbar | 103 kPa | 15 psi max.
Temperature range: operating storage	 -25 °C to 85 °C [-13 °F to 185 °F] -40 °C to 90 °C [-40 °F to 194 °F]	 5 °C to 60 °C [41 °F to 140 °F] -40 °C to 90 °C [-40 °F to 194 °F]
Orientation sensitivity	—	<0.005 Vdc typ. variation at 5 Vdc excitation between any two directions
Weight	34 g [1.20 oz]	23,2 g [0.75 oz]
Connector	snap-in AMP 103956-3 provided with sensor	

[1]Output voltage is ratiometric to supply voltage.

[2]Repeatability and hysteresis tolerances reflect inherent inaccuracies of the measurement equipment.

[3]Response times are from 10% to 90%.

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Table 2. AWM720P1 Flow Specifications

Flow (SLPM)	Nominal (Vdc)	Tolerance (Vdc)	Pressure Drop		
			(mbar)	(Pa)	(inH_20)
0	1.00	±0.05	0	0	0
25	2.99	—	0.10	10	0.04
50	3.82	±0.18	0.33	33	0.13
75	4.30	—	0.53	53	0.21
100	4.58	—	0.85	85	0.34
150	4.86	—	1.64	164	0.65
200	5.00	±0.36	2.74	274	1.09

Table 3. AWM730B5 Flow Specifications

Flow (SLPM)	Nominal (Vdc)	Tolerance (Vdc)	Pressure Drop		
			(mbar)	(Pa)	(inH_20)
0	2.500	±0.090	—	—	—
100	3.600	±0.180	—	—	—
200	4.150	±0.180	—	—	—
300	4.500	±0.360	2.94	294	1.18